

**RESPONSE TO COMMENTS  
DRAFT SUMMARY FIELD REPORT  
STORM DRAIN REMOVAL ACTION  
HUNTERS POINT SHIPYARD  
SAN FRANCISCO, CALIFORNIA**

**Contract No. N62474-93-D-2151  
Delivery Order No. 0061**

Submitted to:

Department of the Navy  
Engineering Field Activity, West  
Naval Facilities Engineering Command  
900 Commodore Drive, Building B-208  
San Bruno, California 94066-2402

Submitted by:

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4585 Pacheco Boulevard  
Martinez, California 94553

OCTOBER 1998

## EPA GENERAL COMMENTS

### Comment

1. *Please include a table summarizing the lengths of storm drain lines cleaned and the lengths not cleaned because the lines were submerged or plugged. Also provide a table with the same information for catch basins and manholes.*

### Response

The cleaning records for storm drain lines of Basins I through X are presented in revised Tables B-1(a) through B-10(a). Remarks were made for the storm drain lines not cleaned. The video records for records for storm drain lines of Basins I through X are presented in revised Table B-1(b) through B-10(b). The cleaning records for catch basins and manholes of Basins I through X are presented in revised Table C-1 through C-10. Remarks were made for both the cleaned and not cleaned catch basins and manholes.

### Comment

2. *The text does not include a correlation of disposal samples collected from either the stockpiled sediments or phase separator sediments with the storm drain areas, catch basins, or manholes from which the sediments were derived. A discussion which provides more detail about the sampling locations, frequencies, etc. pertinent to this data is necessary. It is not clear where samples were taken, the sampling frequency, how the sediment was segregated for sampling, how many samples were collected for each sediment "batch", etc.*

### Response

The purpose of the field activity was the removal and disposal of storm drain sediment. It was not intended to further characterize the location or the nature of the material within the storm drain system. The material removed from the storm drains was aggregated in temporary stockpiles. Samples from each of these stockpiles were taken in order to characterize the material for disposal. There is no direct correlation between these sampling results and the prior location of the sediments within the storm drain system. The intent of the disposal sampling was to provide the disposal facilities with the sampling data necessary to characterize the material removed from the storm drains in order to satisfy the acceptance criteria for that licensed facility.

### Comment

3. *Overall, this report does a good job of describing the work performed and includes a good log of the storm drain conditions and cleaning results.*

### Response

Comment is acknowledged.

## EPA SPECIFIC COMMENTS

### Comment

1) *Page 1-2, last bullet. Please clarify. This statement is confusing and it is not clear what is conveyed in this bullet.*

Response

The "lighter-colored areas" were locations where the high pressure water actually removed a small amount of the inner surface of the storm drain in addition the soil material and debris within the storm drain itself. As a result these areas appear lighter in color than the rest of the cleaned storm drain.

Comment

2) Page 1-3, last paragraph. Please define catch basins and manholes. Include illustrations and/or reference photograph(s).

Response

Reference to the distinction made between the terms "catch basin" and "manhole" are made on pages 1-3 and 2-5. Reference to vaults, manholes, and catch basins is made on page 2-5. A vault is synonymous with a drainage structure which includes both catch basins and manholes. Page 2-5 is being revised to replace the word "vault" with the word "drainage structure." The definition of a catch basin as explained on page 1-3 is the more traditional one. A catch basin usually has a sediment trap which collects debris by allowing materials which are heavier than water to drop out rather than be discharged to the bay. A manhole is used to access the system and typically does not have a sediment trap. An attached drawing follows these comments and responses. The drawing is a composite of Figures taken from an engineering textbook which depicts a manhole and two types of catch basins. Generally a catch basin can be distinguished at the surface by its cover which has openings to allow surface runoff to enter the system. Alternatively, a manhole cover generally has no openings. As explained in the fourth paragraph on page 2-5 the terminology in this Report reflects the more readily identifiable surface cover of the structure rather than whether the structure had a sediment trap or not. Structures with grated covers were called catch basins. Those with solid covers were called manholes. All manholes and catch basins which were accessible were cleaned regardless of their cover design.

Comment

3) Page 2-2. Please provide additional information on the sediment handling/stockpiling. Where did the water from the sediment dewatering go? Was it collected? Was it sampled? Please elaborate. Also in reviewing the photos in the appendix, it appears that the sediments were simply placed on hay bales. Again, please elaborate. Also explain that the stockpiles were located on Parcel E.

Response

All sediment and dewatering wastewater was handled according to the methods described in the letter dated 25 November 1996, from the Navy to the Agencies, copy attached. The wastewater was sampled and tested after it went through the filtration and carbon adsorption process. When the analysis results indicated that the level of contaminants exceeded 50 % of acceptable limits for disposal to the local POTW the water was transported to and discharged into the POTW at Pump Station A at Hunters Point. Until that time the water was recycled into the trucks used to clean the storm drains and reused in the cleaning process. The sediments that were removed from the storm drains were collected and stored temporarily in stockpiles of approximately 50 cubic yards each. Each stockpile was contained within a storage cell consisting of plastic liner

material lining the bottoms and sides of the cell. Hay bales were used around the four sides of each cell and the bottom liner material overlapped the hay bales on all four sides. The photo (Photo 5) in the appendix shows material being discharged into a storage cell. This cell has an additional row of hay bales on top of the bottom row of bales to keep the liner material from blowing off until the material is placed in the cell. The temporary storage cells were located in Parcel E, near the wastewater treatment area.

#### Comment

4) *Page 2-3, second paragraph. Please elaborate on: "for reuse as makeup cleaning water." In third paragraph of this page, first sentence: typo. - need to insert "to" between words "up" and "a".*

#### Response

See response to #3 above. As clarification, "makeup cleaning water" as used in Response #3 is water that was processed as described in the second paragraph of page 2-3 of the Report and then reused to clean the storm drain lines. Regarding the reference to a typographical error, the statement in the text is correct as shown. The trucks were backed up an inclined ramp to discharge the material into the phase separator.

#### Comment

5) *Section 2.3, page 2-3. Note that for the sections of the lines that were submerged, these lines will need to be reevaluated during the Parcel E/Base wide FS and/or ROD and that a technical impracticability waiver may be necessary. Storm drains with submerged lines include Basins I, III, and V which cover Parcels B, C, and E.*

#### Response

Submerged storm drain lines in Basins I, III, and V from Parcels B, C, and E will be evaluated, and if appropriate, cleaning, or relining, or encapsulation, or other appropriate technologies will be considered for inclusion in the remedial action for each respective parcel.

#### Comment

6) *Section 2.3, p. 2-4, paragraph 3. Please estimate the length of lines that could not be cleaned and explain whether it was possible to video these sections to assess the amount of sediment that could not be removed. If possible, estimate the volume of sediment that was not removed. This information about inaccessible lengths is not included in most of the basin specific discussions (e.g., all of the basins except Basins I and III lack the lengths of inaccessible lines).*

#### Response

The response to General comment #1 above indicates the length of line that could not be cleaned. Lines left uncleaned were due either to the line being submerged as a result of Bay influence or a discontinuity in the line that would not permit access by the video or cleaning equipment. In either instance it was not possible to video these line segments to determine the volume of sediment that remains in the line.



Comment

7) *Section 2.3, p. 2-4, last paragraph and Appendix B. Please clarify how the segments that could not be cleaned were identified in the Appendix B tables. These segments should not be labeled "Pass" in the remarks column; some method of identifying inaccessibility should clearly indicate that fact that sediments remain in these segments because they could not be cleaned.*

Response

Further detail has been added to the revised Appendix B Tables to identify segments which could not be cleaned due to inaccessibility. The cleaning criteria are discussed in detail in paragraph 4 of the Introduction section to the Summary Report.

Comment

8) *Page 2-5, section 2.4, first paragraph, last sentence. Any conclusions about threat or absence of? Are sediments likely at steady state due to being submerged?*

Response

No conclusions were drawn in the report regarding sediments remaining in the submerged sections relative to potential threats they may pose to the environment. Due to the period of time the sediments are likely to have been in the submerged lines it is likely that this material has reached a steady state condition.

Comment

9) *Page 2-5, fourth paragraph. See comment 2 above,*

Response

See response to Specific comment 2 above.

Comment

10) *Section 2.4, p. 2-5, paragraph 4. The last sentence of the paragraph, where a vault with no sediment trap is classified as a catch basin is confusing. On page 1-3, the second sentence in the second paragraph states that the difference between a catch basin and a manhole is "that a catch basin has a sediment trap in the bottom while a manhole does not." Please explain why these vaults were classified as catch basins.*

Response

See response to Specific comment 2 above.

Comment

11) *Section 2.4, p. 2-5, last paragraph and Appendix C. The first paragraph in this section describes several cases where several catch basins/manholes could not be cleaned, but the tables in Appendix C only include two locations that were not cleaned. Please explain whether all locations that could not be cleaned were included in Appendix C.*

*Also, the locations that could not be cleaned should not be labeled "Pass" unless it was possible to verify that there was no sediment in the catch basin/manhole after cleaning was completed.*

Response

The text in Section 2.4 has been changed to accurately reflect the data shown in Appendix C. Please refer again to the cleaning criteria, as referenced in response to #7 above. Additional notation has been added to Appendix C to clarify instances where cleaning criteria were met and all known locations are included.

Comment

12) *The report should discuss the RCRA compliance issues. For example in section 2.6. Explain why the method of sediment handling was changed mid-project.*

Response

The method of handling the material removed from the storm drain lines as identified in the Work Plan was called into question by the EPA after the field activities had started. Although we are not in agreement with the EPA interpretation, the method used to store the material removed from the storm drain lines was changed and subsequent to those discussions material was temporarily stored in roll-off bins prior to disposal.

Comment

13) *Page 2-6. EPA is pleased to see that the Navy used Chem Waste landfill in Kettleman Hills, CA which is approved to receive CERCLA waste per the RCRA offsite rule.*

Response

Comment is acknowledge.

Comment

14) *Section 2.6, page 2-6. Please discuss how the sediments were segregated to allow the different waste classifications to be determined.*

Response

Waste material was not segregated. Please refer to the response to General comment #2 above.

Comment

15) *Appendix E - Tables. Please add regulatory level used to screen the hits and to characterize for the sediment stockpiles for disposal.*

Response

Analysis results shown in Appendix E were from samples taken at each temporary storage location. These results were provided to the licensed disposal facilities. Each facility is licensed to permit acceptance of material subject to criteria specific to that location. On the basis of those acceptance criteria the disposal facility made a determination as to whether the material in each temporary storage location would be accepted for disposal and what specific treatment, if any, would be required as part of the acceptance requirements. Generally, if analysis results indicate that the material has concentrations below RCRA levels it may be accepted at a licensed Class 2 facility, subject to additional testing requirements that may be required by that facility. Material

with concentrations at or above RCRA levels will require disposal at a Class 1 facility. Non-contaminated construction debris may be disposed at Class 3 landfills.

Comment

16) *Section 2.7 and Section 2.9, p. 2-7. Neither of these two sections include a discussion of the disposal or cleaning of the contaminated sediment stockpile HDPE liners. Please discuss the final handling of these materials.*

Response

All temporary storage material (liner material and hay bales) was loaded and sent for disposal with the material that was stored in that storage cell.

Comment

17) *Page 3-1, section 3.0. See comment 5 above.*

Response

See response to Comment #5 above.

Comment

18) *Section 3.0. Please elaborate on "inaccessible laterals."*

Response

Laterals were inaccessible for cleaning due to several reasons. The line cleaning equipment required access to a downstream catch basin or manhole to clean a line segment. The cleaning device was propelled up the line and the rinsate water with the removed material flowed down to be removed at the catch basin or manhole where the equipment was located. In order to clean a lateral a catch basin or manhole would have had to be located at the point of intersection of the lateral with the main line. This was generally not the case. Furthermore, many of the lateral lines were constructed of pipe whose diameter was too small to allow use of the cleaning equipment utilized on this job. The only access points to these laterals were also in many cases within buildings which prohibited the cleaning equipment from gaining access to these laterals.

Comment

19) *Page 3-2, section 3.2. Was any portion of the rubber like deposits removed and sampled? Similar material was found in dry dock 4 and tests with deionized water found that copper and other metals harmful to the bay could leach right out of it. Is there any other way to clean, or encapsulate if confirmed to pose a bay threat?*

Response

The lines at Dry dock 4 were cleaned using the same high pressure cleaning equipment that was used in the storm drain systems elsewhere at Hunters Point. Where accessibility was possible hand removal techniques were also used at Dry dock 4 when the high pressure cleaning equipment did not remove sediments. For the most part it was not possible to use hand removal techniques in the storm drain lines due to the size of the lines and accessibility constraints. As a result, the rubber like deposits within the storm drain lines were neither removed nor sampled. If

this material is confirmed as a potential threat there may be a way to encapsulate or remove the storm drain pipe.

Comment

20) Page 3-2, section 3.3. See comment 13 above,

Response

It is assumed that the reference to "comment 13" is a typographical error and should read "comment 18". The response regarding "inaccessible laterals" is the same as the previous response given for Comment 18 above.

Comment

21) Section 3.2, p. 3-2, paragraph 2, sentence 3. *It was noted that during cleanup of the Basin II area, hard, "rubber type" black deposits, resistant to cleaning were found in one manhole, three catch basins, and one lateral line. Please discuss whether any further characterization was done to determine the composition of the deposits and whether it would be necessary to remove this material in the future.*

Response

Please refer to the response to Comment 7 and the cleaning criteria discussed in the Introduction to the Summary Report. As stated in the cleaning criteria, if a deposit could not be removed without risking damage to the pipe it was to be left in place. This was the case with regard to the black deposits that remained within the structures identified in this comment. There was no further characterization done of this material.

Comment

22) Section 3.4, p. 3-3, paragraph 1, sentence 2. *See comment number 7 concerning the characterization of hard, "rubber type" black deposits left in the storm drain line and clarify whether this material was characterized.*

Response

See response to Comment 21 above.

Comment

23) *Figures are outstanding*

Response

Comment is acknowledged.

## **CALIFORNIA EPA / S.F BAY REGIONAL QUALITY CONTROL BOARD COMMENTS**

### Comment

1) *The text of Section 1.1 notes 99,000 linear feet of line in Parcels B, C, D, and E, while the total length of line in the 10 basins described in Section 3 is 107,000 linear feet.*

### Response

The 99,000 linear feet figure is correct. The 107,000 linear foot figure was an estimate only.

### Comment

2) *The text of Section 1.1 notes 945 catch basins/manholes in the storm drain system. The total number of catch basins/manholes cleaned as summarized in Section 3 is 647. The balance between these two numbers should be accounted for among areas outside this program (Parcel A), areas not cleaned because of access or submersion problems, and catch basins/manholes inspected but not cleaned.*

### Response

See response to General Comment #1 of the EPA above. Further clarification has been provided in both revised Appendix B and C to the Summary Report. The total number of catch basins and manholes cleaned is 669. The total number of catch basins and manholes not cleaned is 74. The difference between the total number of catch basins and manholes cleaned and not cleaned, 743 and 945 total estimated as identified in Section 1.1 is accounted for in the area outside this program, Area A.

### Comment

3) *Comparison of the cleaning logs in Appendix C to the figures in Section 3 showed generally good agreement. Some minor discrepancies were noted. For example, in Basin VII, MH A11, CB A10-1, CB C11, and CB C11-1 are shown on Figure 3-7 as cleaned, but are not included in Table C-7.*

### Response

The cleaning records for catch basins and manholes of Basins I through X are presented in revised Tables C-1 through C-10, correspondingly. These tables superseded the previous version and should eliminate the discrepancies as stated in Comment 3.

### Final Comment

*In Appendix D, it would be useful to summarize the waste concentration values used in making decisions regarding waste classification and disposition. Also, please provide information regarding the reporting limits below which concentrations are reported as nondetectable.*

### Response

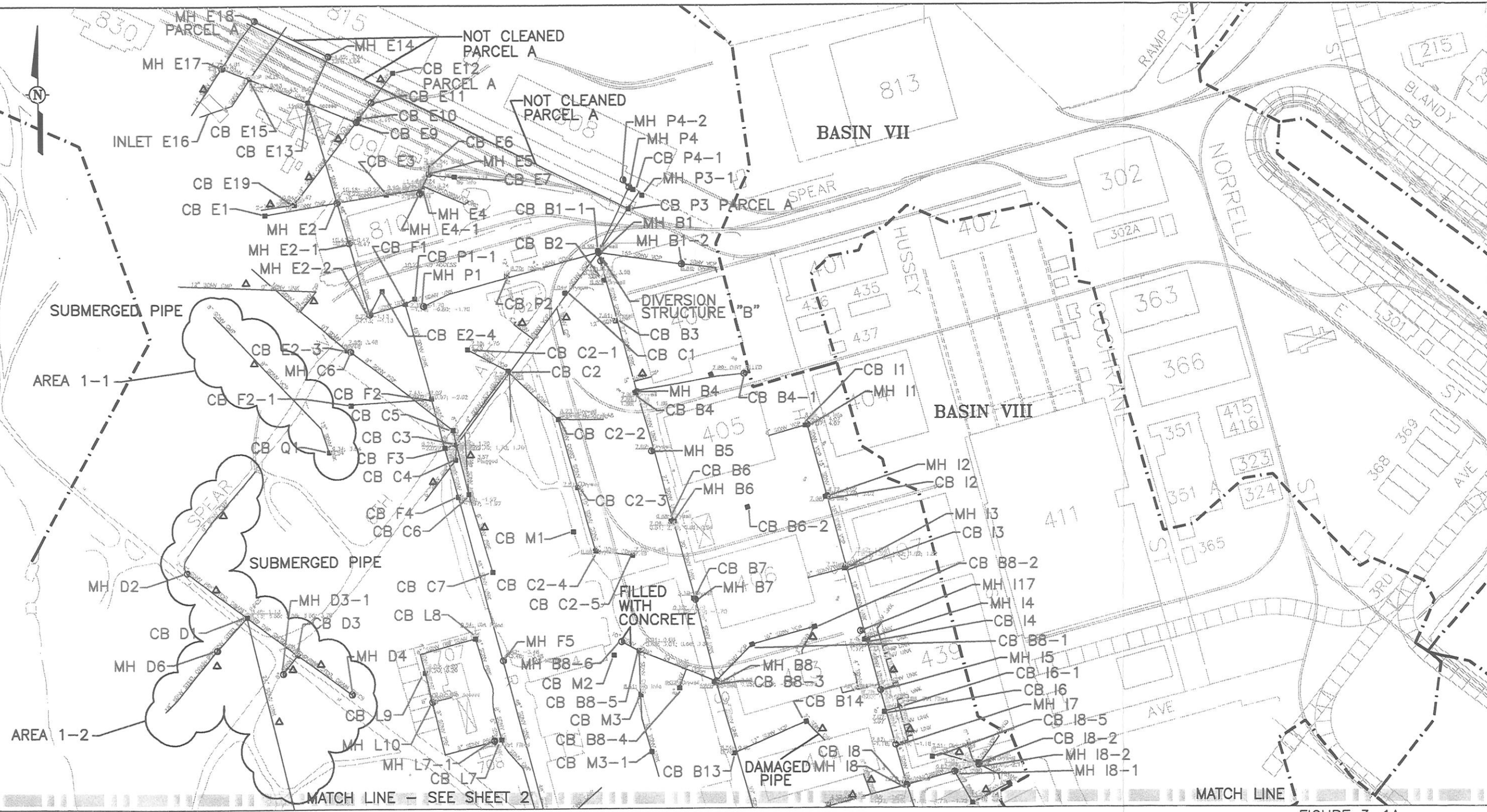
Attachment 1.0 to the Sampling and Analysis Plan for the Storm Drain removal Action contains the Requirements for Batch Wastewater Discharges, issued by the City and County of San Francisco. A copy of this document is attached as reference. The Batch Wastewater discharge

permits were issued by the City and County of San Francisco after wastewater laboratory analyses submitted to them were reviewed and compared to those requirements.

Also attached is a copy of one of the wastewater laboratory analysis results which indicate the reporting limits for each constituent analyzed. The same reporting limits were used for the analyses that were run on each wastewater sample.

REVISION 1 / BY: SJZ / 7-1-98 / ISSUE FOR CLARIFICATION WITH NEW TABLE

|          |    |         |            |             |        |                |            |
|----------|----|---------|------------|-------------|--------|----------------|------------|
| DRAWN BY | BJ | 12-9-97 | CHECKED BY | BJ          | 7/2/98 | DRAWING NUMBER | 767631-B22 |
|          |    |         |            | APPROVED BY | BJM    | 7-7-98         |            |



- LEGEND**
- PIPE RUN
  - MH ● MANHOLE
  - CB ■ CATCHBASIN
  - BASIN BOUNDARY
  - △ NOT CLEANED/NOT ACCESSIBLE

- NOTES:**
1. ALL STORM DRAIN LINES IN THIS BASIN HAVE BEEN CLEANED EXCEPT AS NOTED. SEE APPENDIX B FOR DETAILED LINE CLEANING LOGS AND APPENDIX C FOR CATCH BASIN/MANHOLE CLEANING LOGS.
  2. SEE FIGURE 1-1 FOR BASIN LOCATION MAP

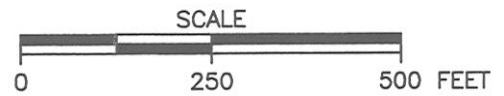
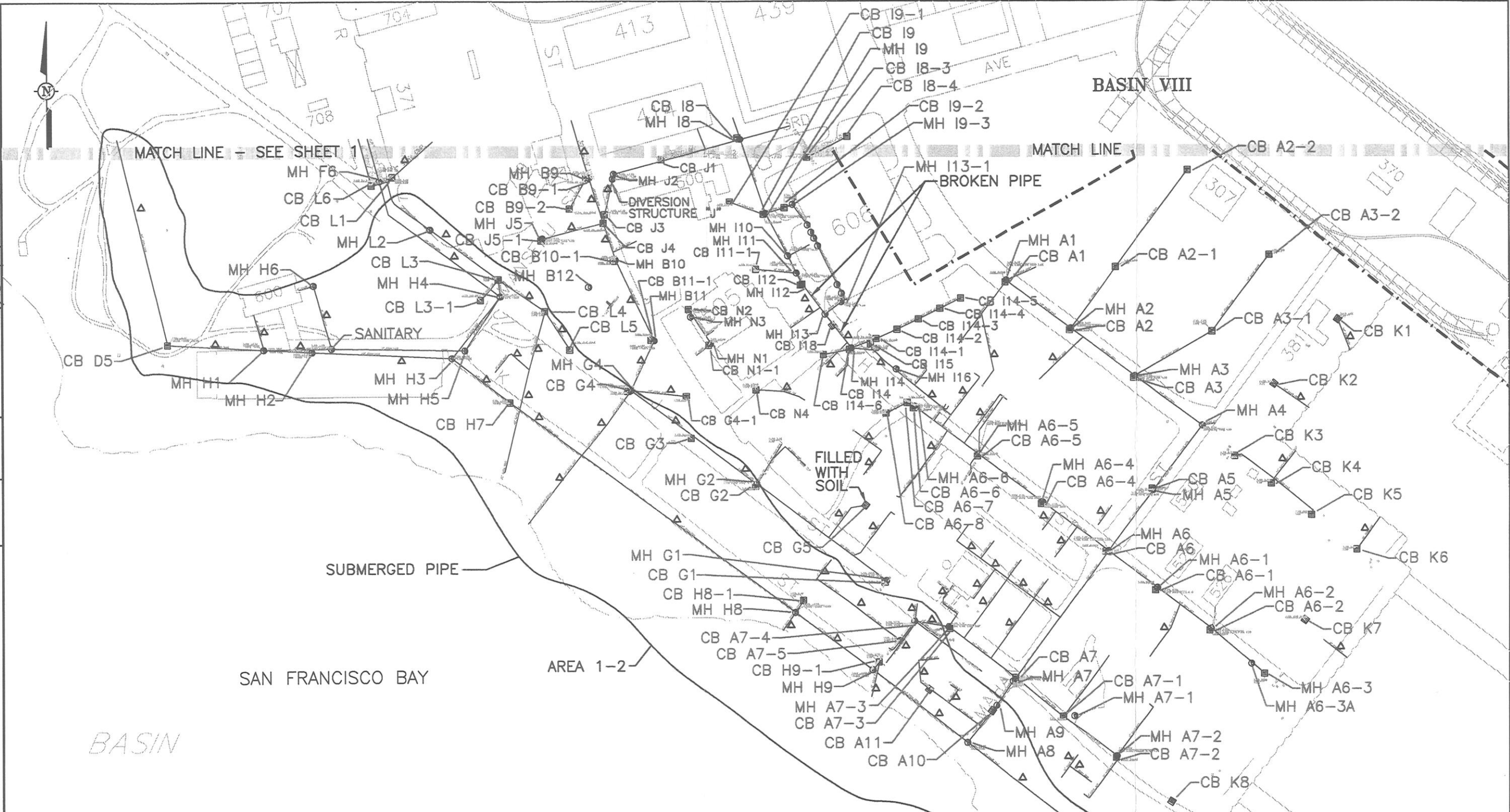


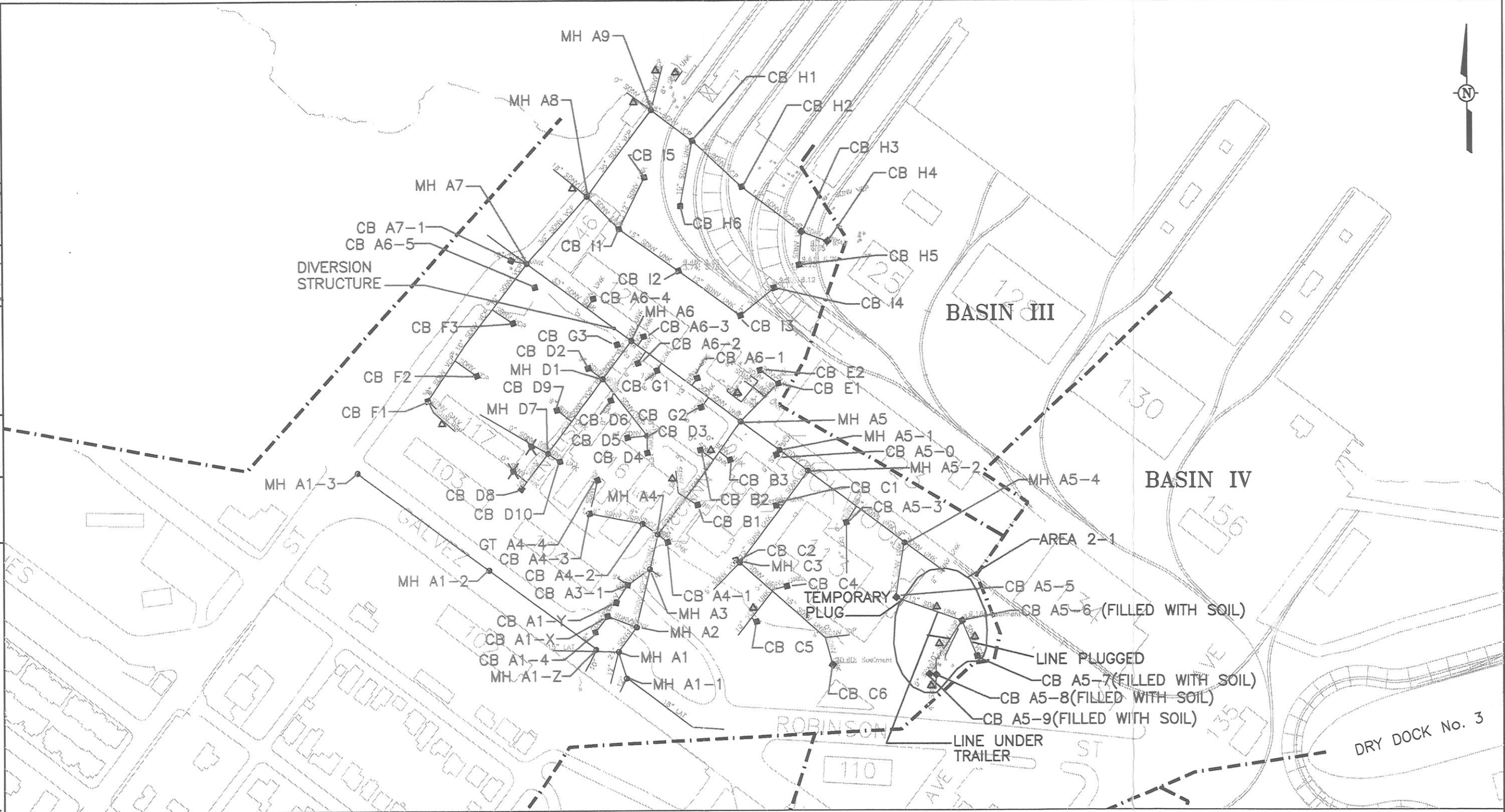
FIGURE 3-1A  
**BASIN I**  
STORM DRAIN LINE CLEANING  
AS-BUILT (SHEET 1 OF 2)  
PREPARED FOR  
DELIVERY ORDER 61  
HUNTERS POINT SHIPYARD  
SAN FRANCISCO, CALIFORNIA

**INTERNATIONAL  
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- LEGEND**
- PIPE RUN
  - MH • MANHOLE
  - CB ■ CATCHBASIN
  - - - BASIN BOUNDARY
  - △ NOT CLEANED/NOT ACCESSIBLE

- NOTES:**
1. ALL STORM DRAIN LINES IN THIS BASIN HAVE BEEN CLEANED EXCEPT AS NOTED. SEE APPENDIX B FOR DETAILED LINE CLEANING LOGS AND APPENDIX C FOR CATCH BASIN/MANHOLE CLEANING LOGS.
  2. SEE FIGURE 1-1 FOR BASIN LOCATION MAP

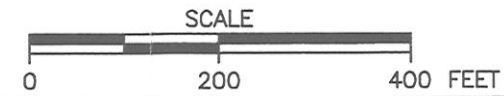

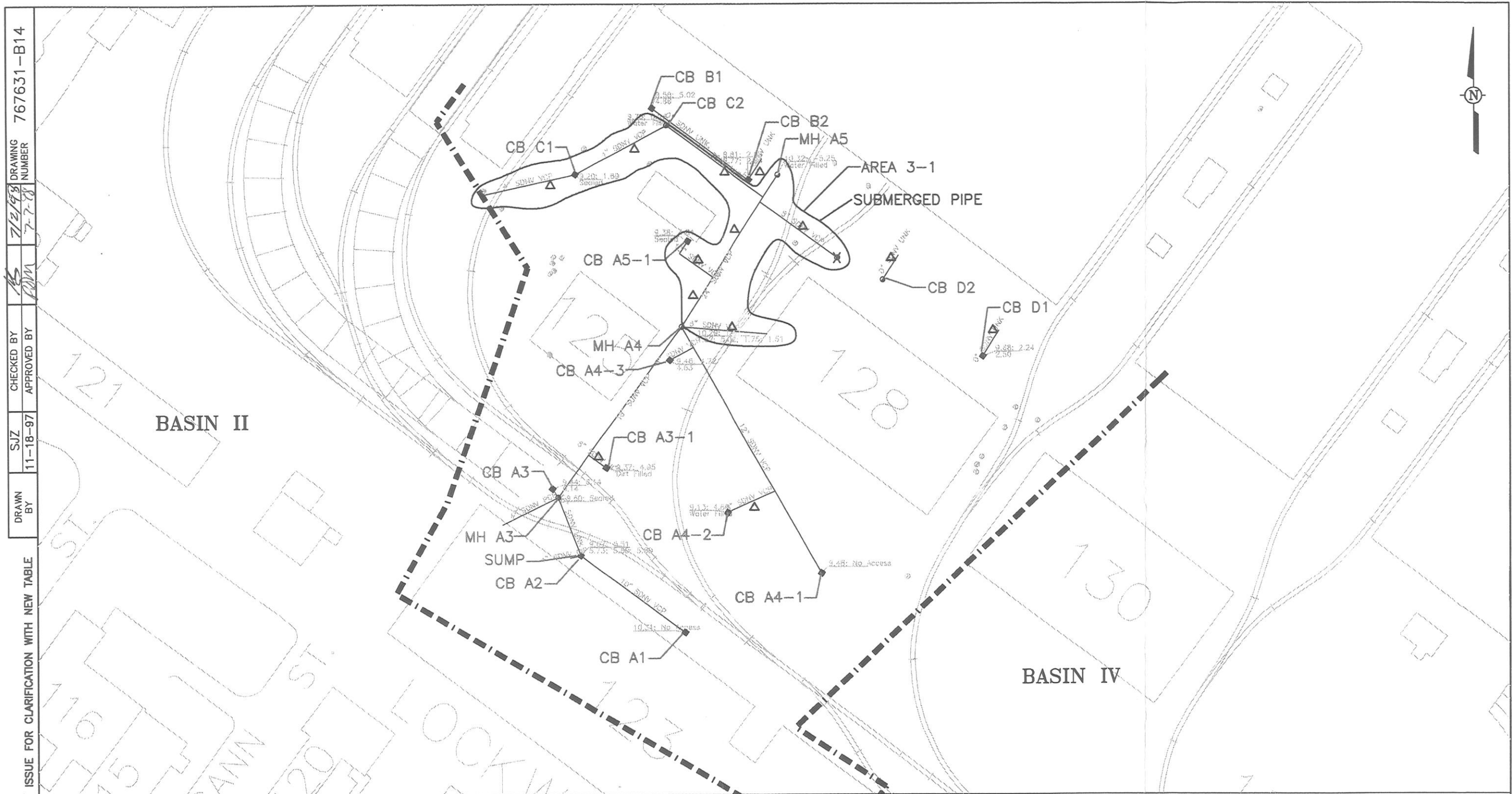


FIGURE 3-2  
**BASIN II**  
 STORM DRAIN LINE CLEANING  
 AS-BUILT  
 PREPARED FOR  
 DELIVERY ORDER 61  
 HUNTERS POINT SHIPYARD  
 SAN FRANCISCO, CALIFORNIA  
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REVISION 1 / BY: SJZ / 7-1-98 / ISSUE FOR CLARIFICATION WITH NEW TABLE  
 DRAWN BY: SJZ / 11-18-97 / CHECKED BY: [Signature] / 7-2-98 / APPROVED BY: [Signature] / 7-7-98 / DRAWING NUMBER: 767631-B14

- LEGEND**
- PIPE RUN
  - MH • MANHOLE
  - CB ■ CATCHBASIN
  - - - BASIN BOUNDARY
  - △ NOT CLEANED/NOT ACCESSIBLE

- NOTES:**
1. ALL STORM DRAIN LINES IN THIS BASIN HAVE BEEN CLEANED EXCEPT AS NOTED. SEE APPENDIX B FOR DETAILED LINE CLEANING LOGS AND APPENDIX C FOR CATCH BASIN/MANHOLE CLEANING LOGS.
  2. SEE FIGURE 1-1 FOR BASIN LOCATION MAP

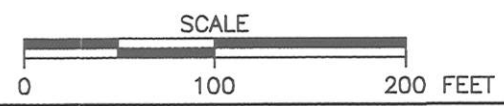

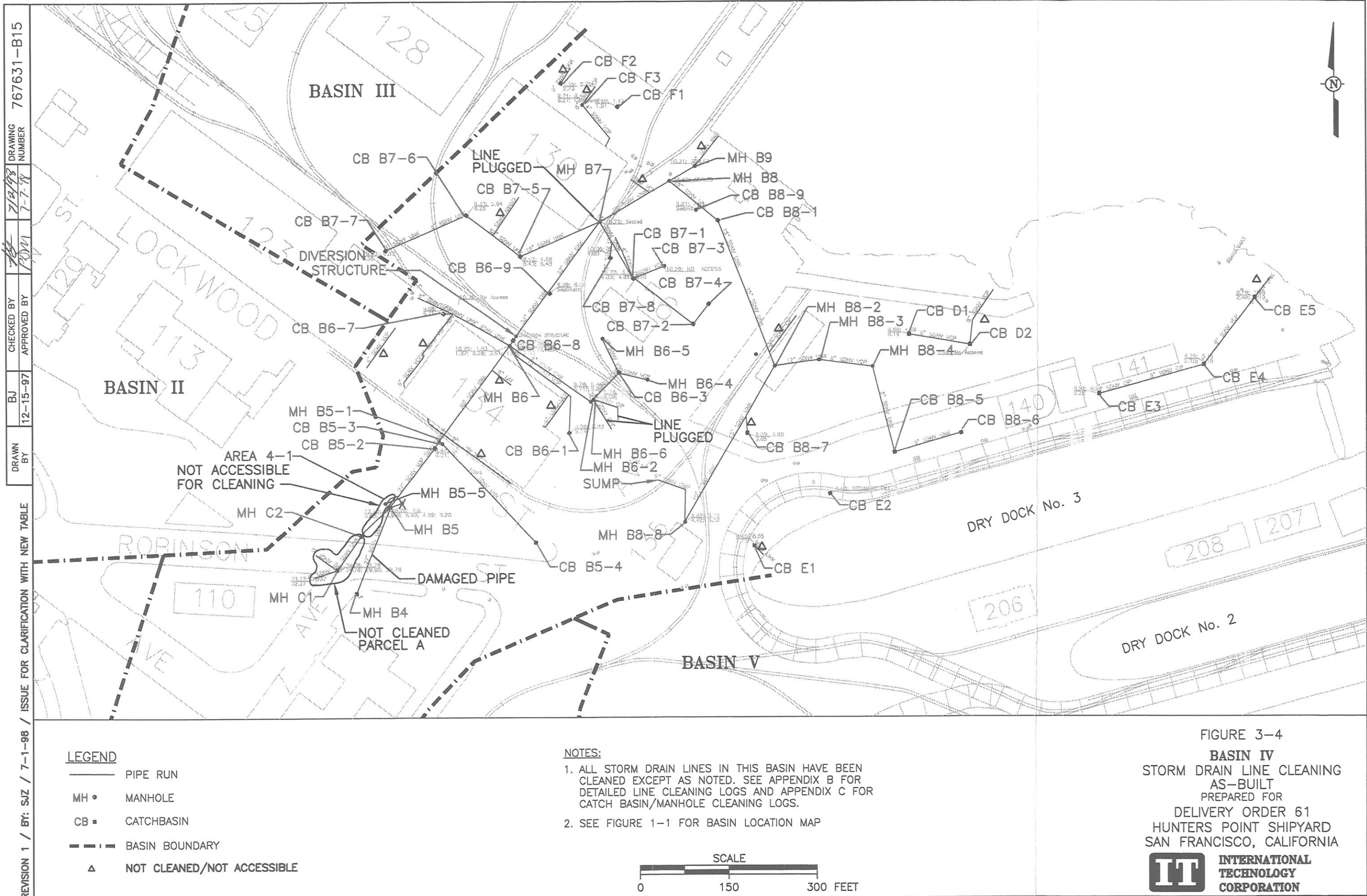
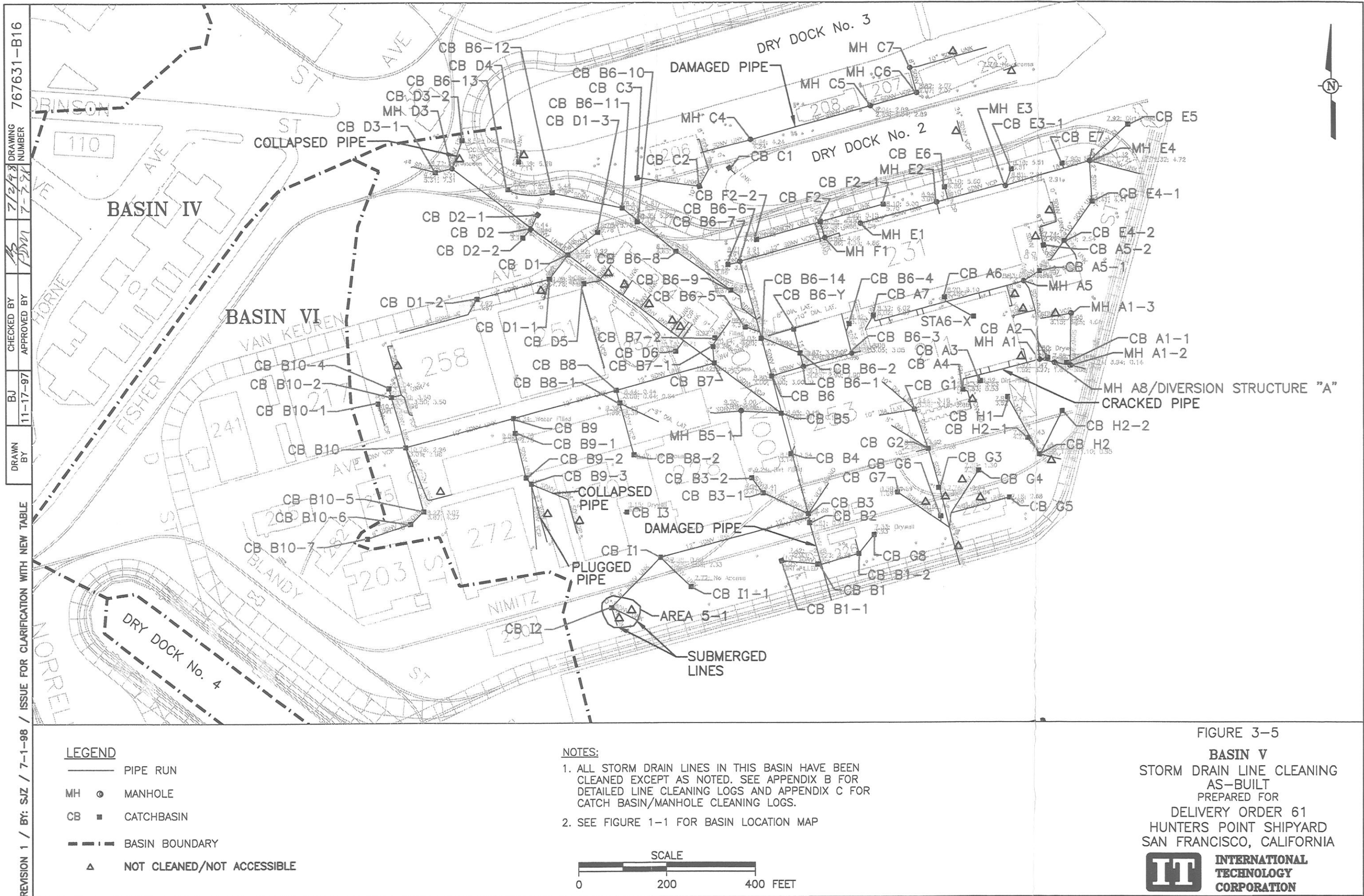
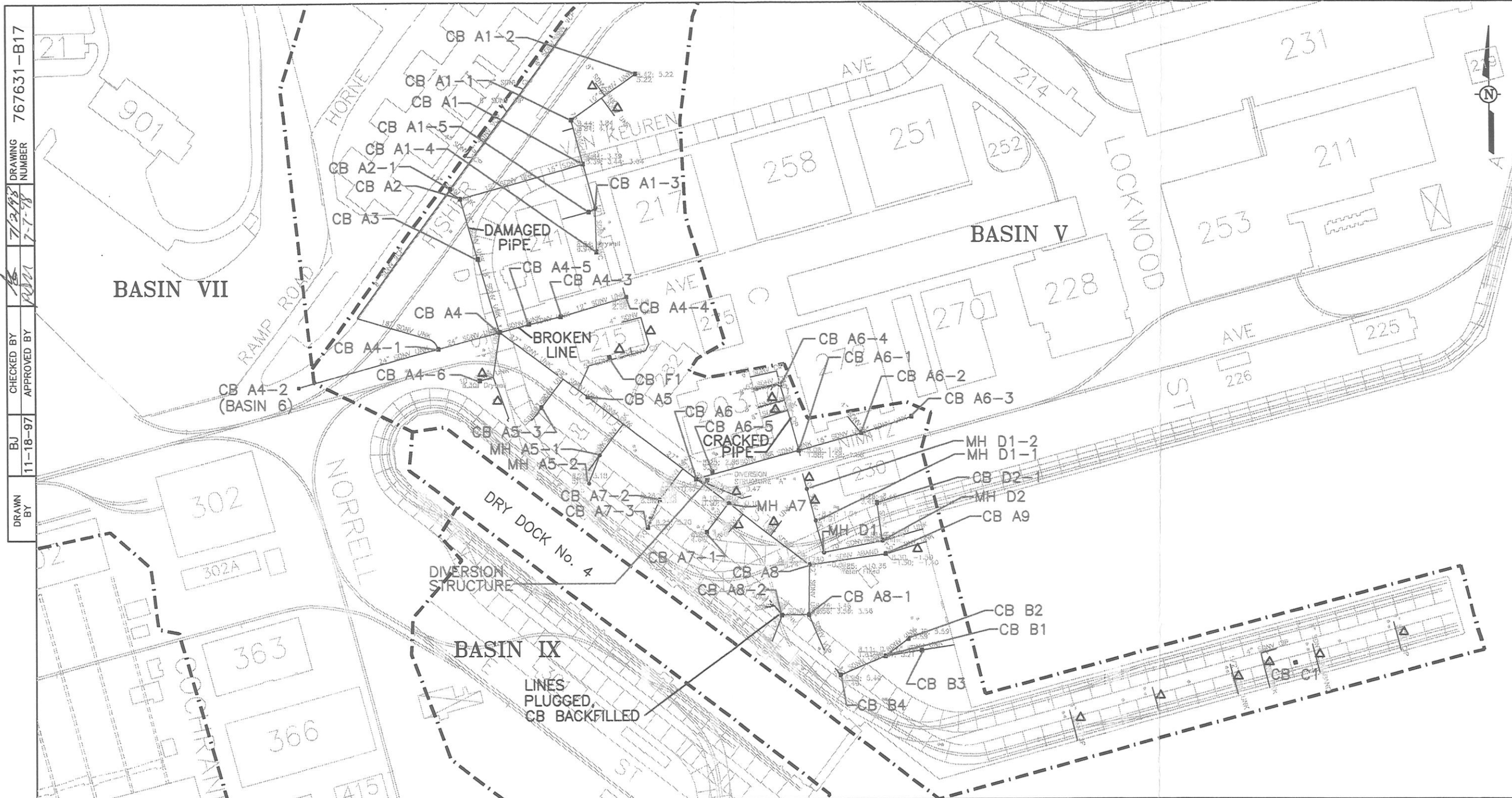


FIGURE 3-3  
**BASIN III**  
 STORM DRAIN LINE CLEANING  
 AS-BUILT  
 PREPARED FOR  
 DELIVERY ORDER 61  
 HUNTERS POINT SHIPYARD  
 SAN FRANCISCO, CALIFORNIA  
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- LEGEND**
- PIPE RUN
  - MH • MANHOLE
  - CB ■ CATCHBASIN
  - - - BASIN BOUNDARY
  - △ NOT CLEANED/NOT ACCESSIBLE

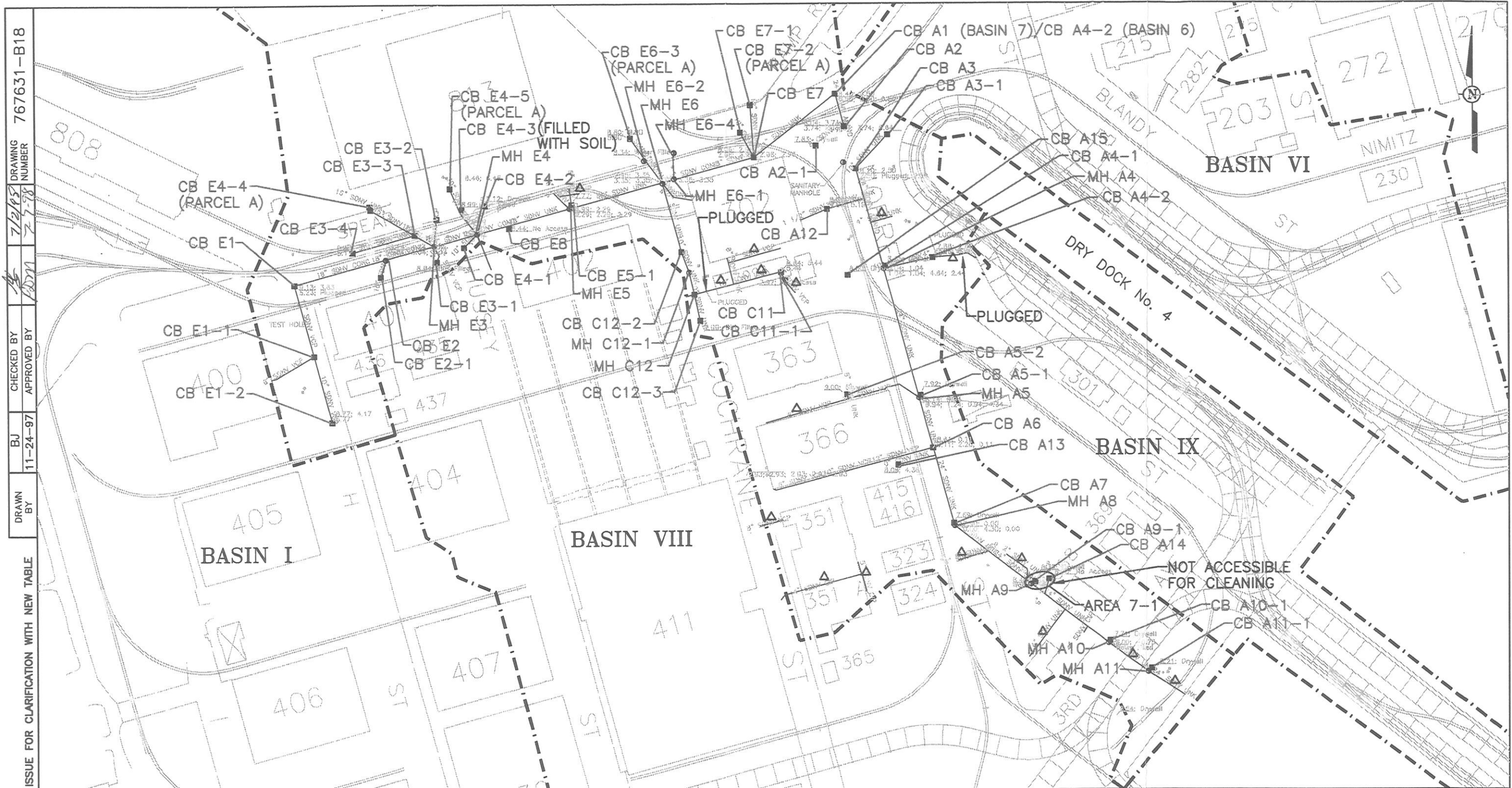
- NOTES:**
1. ALL STORM DRAIN LINES IN THIS BASIN HAVE BEEN CLEANED EXCEPT AS NOTED. SEE APPENDIX B FOR DETAILED LINE CLEANING LOGS AND APPENDIX C FOR CATCH BASIN/MANHOLE CLEANING LOGS.
  2. SEE FIGURE 1-1 FOR BASIN LOCATION MAP



FIGURE 3-6  
**BASIN VI**  
 STORM DRAIN LINE CLEANING  
 AS-BUILT  
 PREPARED FOR  
 DELIVERY ORDER 61  
 HUNTERS POINT SHIPYARD  
 SAN FRANCISCO, CALIFORNIA

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 CHECKED BY: BJJ  
 APPROVED BY: BJJ  
 DRAWING NUMBER: 767631-B18

- LEGEND**
- PIPE RUN
  - MH ● MANHOLE
  - CB ■ CATCHBASIN
  - - - BASIN BOUNDARY
  - △ NOT CLEANED/NOT ACCESSIBLE

- NOTES:**
1. ALL STORM DRAIN LINES IN THIS BASIN HAVE BEEN CLEANED EXCEPT AS NOTED. SEE APPENDIX B FOR DETAILED LINE CLEANING LOGS AND APPENDIX C FOR CATCH BASIN/MANHOLE CLEANING LOGS.
  2. SEE FIGURE 1-1 FOR BASIN LOCATION MAP

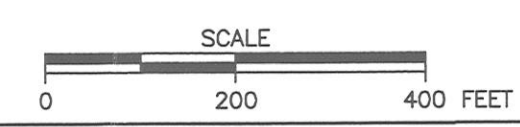
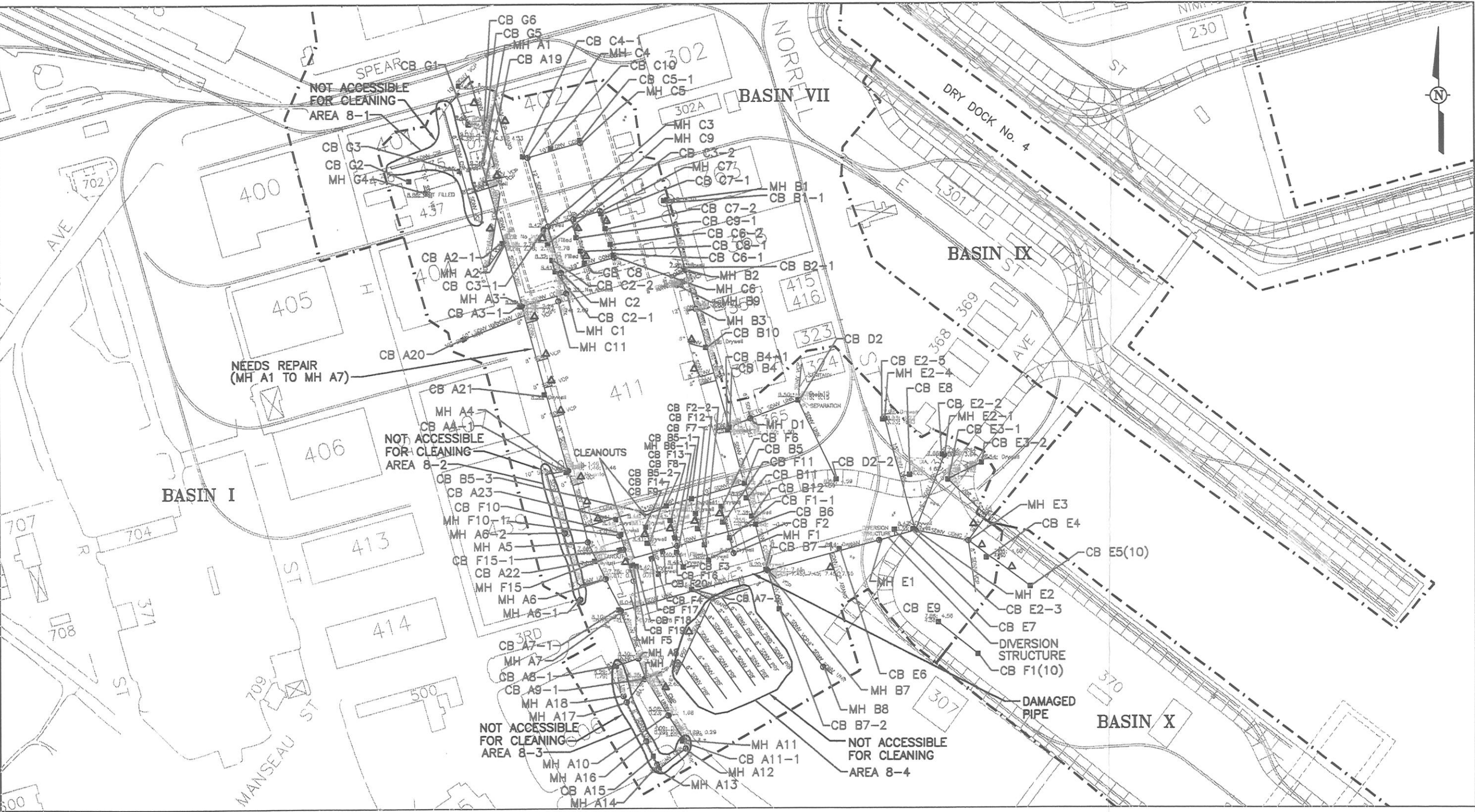


FIGURE 3-7  
**BASIN VII**  
 STORM DRAIN LINE CLEANING  
 AS-BUILT  
 PREPARED FOR  
 DELIVERY ORDER 61  
 HUNTERS POINT SHIPYARD  
 SAN FRANCISCO, CALIFORNIA



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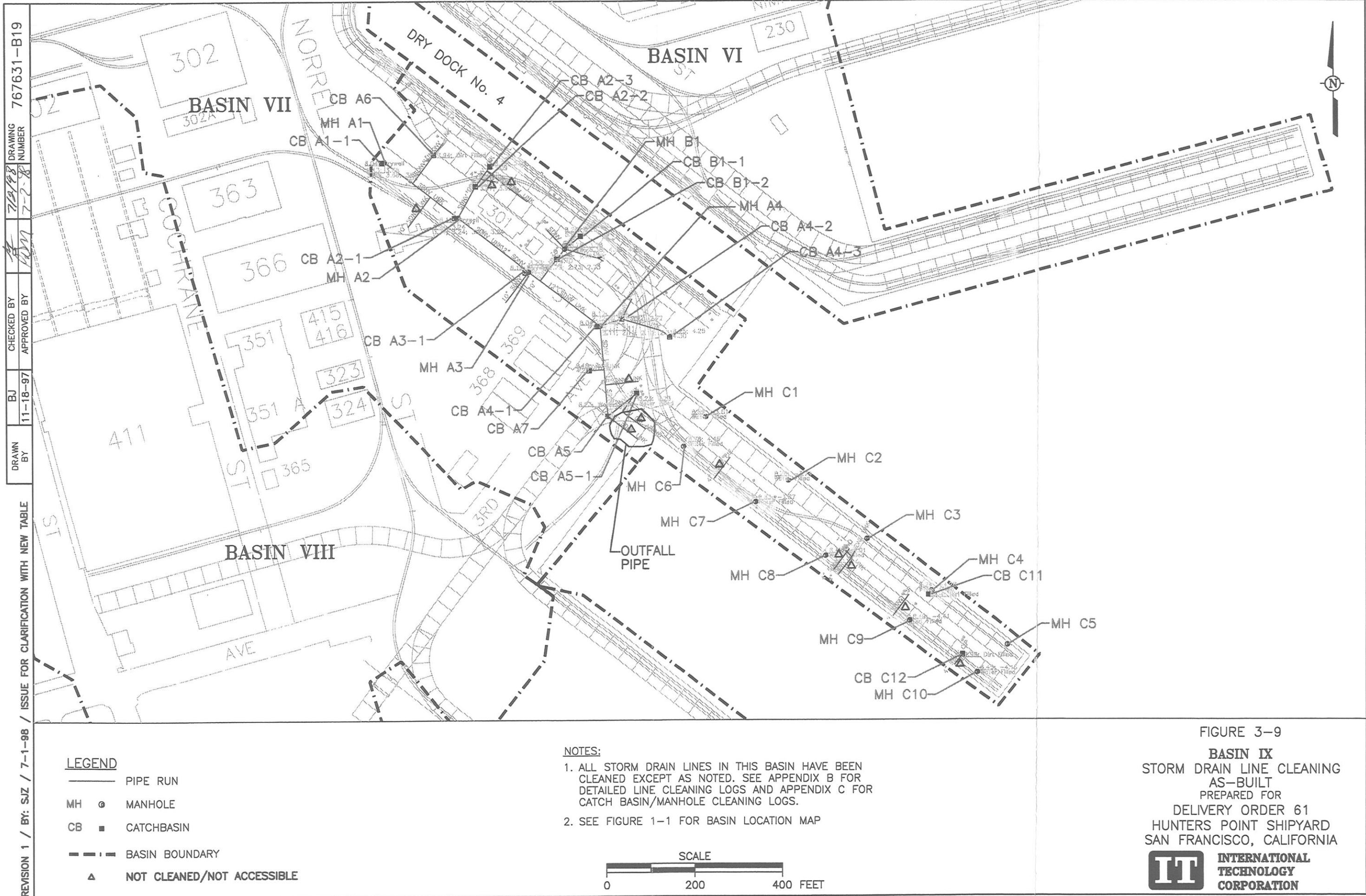
- LEGEND**
- PIPE RUN
  - MH • MANHOLE
  - CB ■ CATCHBASIN
  - BASIN BOUNDARY
  - △ NOT CLEANED/NOT ACCESSIBLE

- NOTES:**
1. ALL STORM DRAIN LINES IN THIS BASIN HAVE BEEN CLEANED EXCEPT AS NOTED. SEE APPENDIX B FOR DETAILED LINE CLEANING LOGS AND APPENDIX C FOR CATCH BASIN/MANHOLE CLEANING LOGS.
  2. SEE FIGURE 1-1 FOR BASIN LOCATION MAP

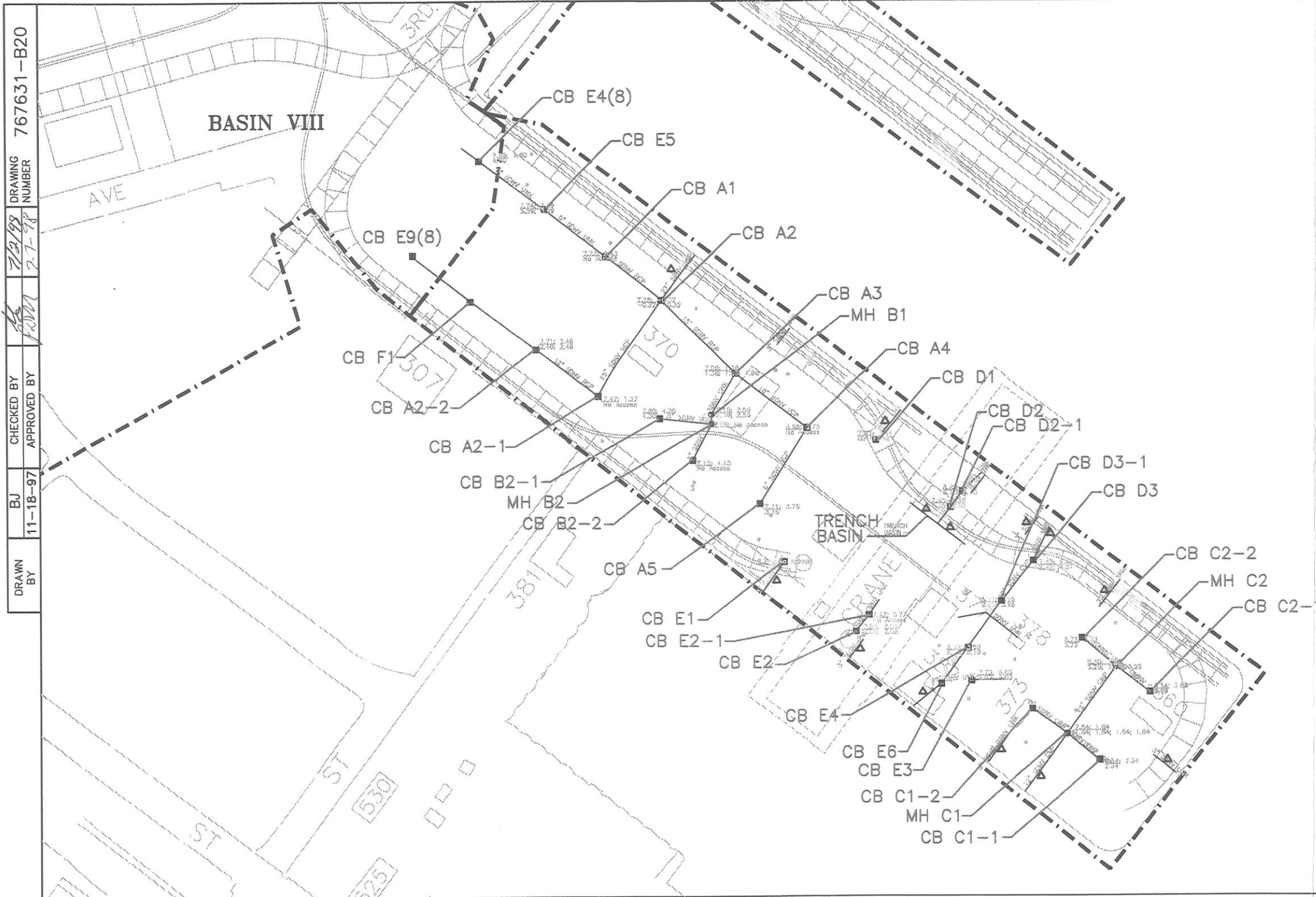
FIGURE 3-8  
**BASIN VIII**  
STORM DRAIN LINE CLEANING  
AS-BUILT  
PREPARED FOR  
DELIVERY ORDER 61  
HUNTERS POINT SHIPYARD  
SAN FRANCISCO, CALIFORNIA

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# **LEGEND**

- PIPE RUN
- MH MANHOLE
- CB CATCHBASIN
- BASIN BOUNDARY
- NOT CLEANED/NOT ACCESSIBLE

## **NOTES:**

- ALL STORM DRAIN LINES IN THIS BASIN HAVE BEEN CLEANED EXCEPT AS NOTED. SEE APPENDIX B FOR DETAILED LINE CLEANING LOGS AND APPENDIX C FOR CATCH BASIN/MANHOLE CLEANING LOGS.
- SEE FIGURE 1-1 FOR BASIN LOCATION MAP

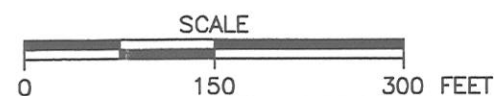
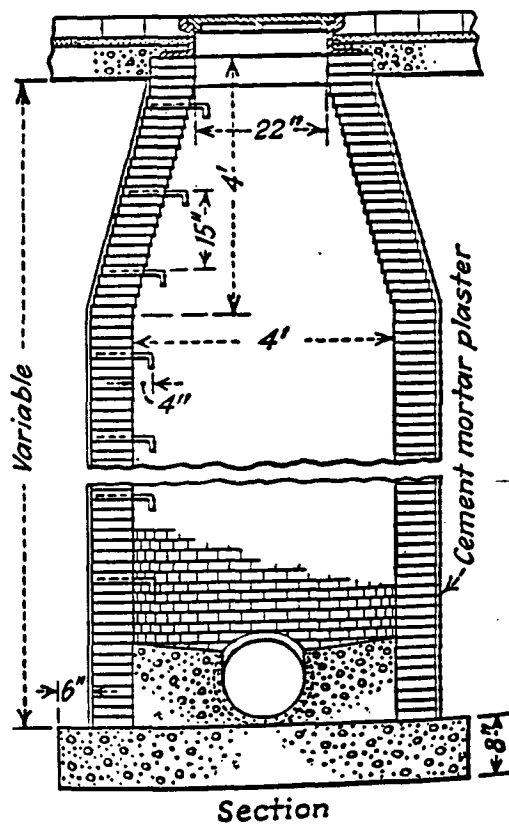


FIGURE 3-10  
**BASIN X**  
 STORM DRAIN LINE CLEANING  
 AS-BUILT  
 PREPARED FOR  
 DELIVERY ORDER 61  
 HUNTERS POINT SHIPYARD  
 SAN FRANCISCO, CALIFORNIA



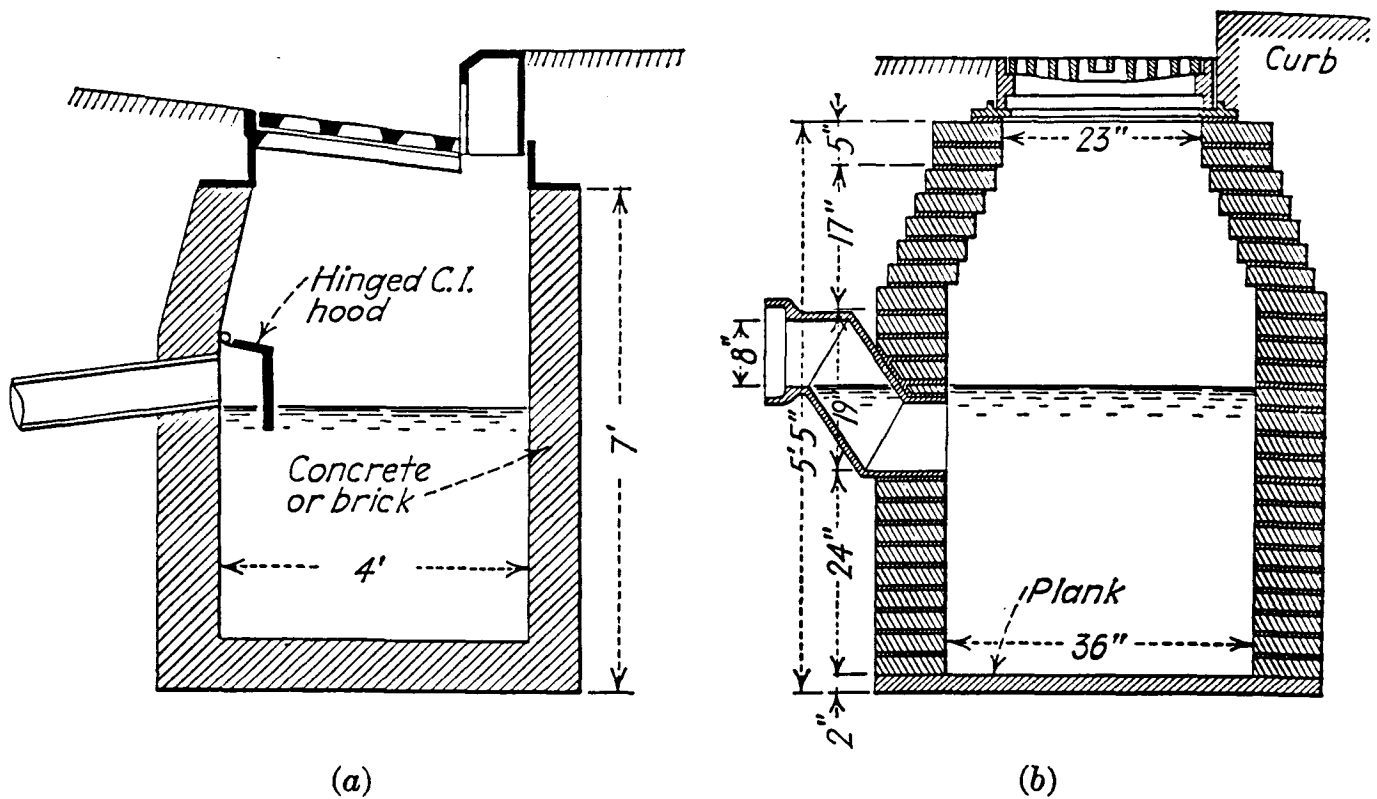
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 CHECKED BY: 7/2/98  
 APPROVED BY: 7/2/98  
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Section

FIG. 16-1. A brick manhole.



(a)

(b)

FIG. 16-9. Types of catch basins. (a) Combined gutter and curb inlet. (b) Gutter inlet only. Construction as recommended by Clay Products Association.

5090  
Ser 1832.2/L7042  
25 Nov 1996

Mr. Cyrus Shabahari  
California Department of Toxic Substances Control  
Site Mitigation Branch  
700 Heinz Avenue, Building F  
Berkeley, CA 94710

Dear Mr. Shabahari,

The purpose of this letter is to confirm our phone conversation with you on November 19, 1996, during which we discussed the IR-50 Storm Drain System Removal Action at the Hunters Point Shipyard (HPS) in San Francisco, California. This removal action is designed to eliminate the potential for migration of contaminated sediments into the San Francisco Bay via the HPS storm drain system by cleaning sediments from the storm drain system and disposing of the sediments off site.

As part of the sediment removal process, storm drain lines will be sprayed with a high-pressure jet washer, while the downstream manhole is plugged to contain wash water and sediments. The resulting sediment slurry will be collected in specially adapted roll-off containers equipped with filters and decanting equipment. The decanted water will be used whenever possible for additional line cleaning. Spent wash water will be characterized before discharge to the local publicly owned treatment works. All sediments will be characterized as hazardous or nonhazardous, and the results of the characterization will dictate the subsequent management practices for sediments in each container.

As we discussed during our phone conversation, we have included with this letter (enclosure (1)) eight pages from the Storm Drain System Removal Action Work Plan, which was prepared by IT Corporation for the Navy. These pages will provide some details of how the on-site filtration system is being used for phase separation. We have also included a list of references (enclosure (2)) to the filtering system and the phase separation process, which are in the Action Memorandum and in the Engineering Evaluation/Cost Analysis for the IR-50 Storm Drain System Removal Action at the Hunters Point Shipyard.

If you have any questions regarding this letter, please contact either myself at (415) 244-2655, or Mr. William Radzevich at (415) 244-2555.

Sincerely yours,

RICHARD E. POWELL  
Lead Remedial Program Manager for HPS/TI  
By direction of  
the Commander

5090  
Ser 1832.2/L7042  
25 Nov 1996

**Enclosures:**

- (1) Eight pages from the Storm Drain System Removal Action Work Plan
- (2) List of References from Action Memorandum and Engineering Evaluation/Cost Analysis for the IR-50 Storm Drain System Removal Action at HPS

**Copies to:**

U.S. Environmental Protection Agency (Attn: Shery Lauth)  
Regional Water Quality Control Board (Attn: Mr. Richard C. Hiatt)  
PRC Environmental Management (Attn: Mr. James Sickles)

**Blind copies to:**

62.3, 62C, CSO-HPS(ES), 1832, 1832.2, 09CMN  
Chron, Green  
Activity File: HPA (File: L67042WR) ab



**City and County of San Francisco  
Department of Public Works**

**ureau of Environmental Regulation and Management**

**Bayview Plaza  
3201 Third St., Suite 600  
San Francisco, CA 94124**

**April 11, 1994**

**REQUIREMENTS FOR BATCH WASTEWATER DISCHARGES**

The information that must be included in applications for permits to carry out batch discharges of wastewater into the City and County of San Francisco's (City's) sewerage system is outlined below.

Such batch discharges may result from de-watering of construction sites, wells drilled to investigate/mitigate a suspected contaminated site, water used for cleaning/hydrostatic testing of pipes or tanks, or any other activity which generates wastewater, other than from routine commercial/industrial processes.

The discharges shall be subject to payment of sewer service charges in accordance with the provisions of applicable City laws.

The application for discharge shall be submitted no later than 45 days prior to the proposed commencement of the discharge and must include the following information:

- (1) The source (i.e. the activity and location at which the wastewater is generated);
- (2) The total estimated volume of proposed discharge;
- (3) The proposed discharge location (including location of side sewer, street manhole(s) or storm drain(s) proposed for disposal use); and,
- (4) A copy of applicable analytical results (see below) from a representative sample (i.e. a sample portion of the wastewater that is as nearly identical in content and consistency as possible to that in the larger body of wastewater being sampled).

**[NOTE:** All sampling and analysis shall be performed in accordance with techniques and procedures approved by the U.S. Environmental Protection Agency (EPA) and amendments thereto, or otherwise approved by the EIA.

These procedures must be performed by a laboratory approved to do so by the Environmental Laboratory Accreditation Program (ELAP), State of California, Department of Health Services, Berkeley, California. ELAP can be reached at (510) 540-2800.]

The following applicable analytical results, as indicated in Table 1A below, are required from all wastewaters from all sources.

**Table 1A. General Analytical Requirements For Batch Wastewater Discharges  
- ALL Sources**

| <u>Pollutant/Pollutant Property</u> | <u>Analytical Methodology<sup>1</sup> / Test Methods<sup>2</sup></u> | <u>Limit<sup>3</sup></u><br>(mg/L) |
|-------------------------------------|--|------------------------------------|
| pH (pH units)                       | 4500-H <sup>+</sup> / 9040   | 6.0 min.; 9.5 max.                 |
| Dissolved sulfides                  | 4500-S <sup>2-</sup> / 9030A   | 0.5                                |
| Hydrocarbon Oil and Grease          | 5520F / ----   | 100                                |
| Total Recoverable Oil and Grease    | 5520B / 9070   | 300                                |
| Total suspended solids              | 2540D / ----   | ---                                |
| Chemical oxygen demand              | 5220 / ----  | ---                                |

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<sup>1</sup> Standards Methods For The Examination Of Water And Wastewater, Greenberg, Arnold B., et al., American Public Health Association, et al., Washington, D.C., 1992, 18th ed., as amended;

<sup>2</sup> Test Methods For Evaluating Solid waste, U.S. Environmental Protection Agency, November 1986 (Rev. July 1992), 3rd ed., SW-846, as amended.

<sup>3</sup> Chapter X (Public Works Code) of Part II of the San Francisco Municipal Code, Article 4.1, Section 123.

Table 1A. (Cont'd)

| <b><u>Pollutant/Pollutant Property</u></b> | <b><u>Analytical Methodology / Test Methods</u></b> | <b><u>Limit<sup>d</sup><br/>(mg/L)</u></b> |
|--|---|--|
| <b>Arsenic (Total)</b>                     | 3113, 3114, 3120 / 7060, 7061A                      | 4.0  |
| <b>Cadmium (Total)</b>                     | 3500-Cd A,B,C / 6010A, 7130, 7131                   | 0.5  |
| <b>Chromium (Total)</b>                    | 3500-Cr A,B,C / 6010A, 7190, 7191                   | 5.0  |
| <b>Copper (Total)</b>                      | 3500-Cu A,B,C / 6010A, 7210, 7211                   | 4.0  |
| <b>Lead (Total)</b>                        | 3500-Pb A,B,C / 6010A, 7420, 7421                   | 1.5  |
| <b>Mercury (Total)</b>                     | 3500-Hg A,B / 7470                                  | 0.05                                       |
| <b>Nickel (Total)</b>                      | 3500-Ni A,B,C / 6010A, 7520                         | 2.0  |
| <b>Silver (Total)</b>                      | 3500-Ag A,B,C / 6010A, 7760A, 7761                  | 0.6  |
| <b>Zinc (Total)</b>                        | 3500-Zn A,B,C / 6010A, 7950, 7951                   | 7.0  |
| <b>Phenols</b>                             | 5530D / —   | 23.0                                       |
| <b>Cyanide (Total)</b>                     | 4500-CN <sup>-</sup> D,E / 9010A, 9012              | 1.0  |

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<sup>d</sup> City and County of San Francisco, Department of Public Works, Order No. 158170.

In addition to the analyses listed in Table 1A, above, wastewaters that are suspected of petroleum contamination because of location and site history (e.g. service stations, garages, automotive repair/wrecking areas, fuel oil storage areas, etc.) OR wastewaters that are suspected of contamination from hazardous waste sites are also subject to the specified analyses, as delineated in Table 1B.

**(NOTE: All fill areas of the City and County of San Francisco are suspected of hazardous waste contamination. Therefore permit applications for wastewater discharges from such locations also require the submittal of the specified analyses, as delineated in Table 1B.**

For each "Pollutant/Pollutant Parameter" or "Contaminant" or "Substance" listed in the tables, the most stringent "Limit" or "Regulatory Level" or "Soluble/Total Threshold Limit Concentration" must be satisfied.

Applications for permits to perform batch wastewater discharges should be addressed as follows:

Mr. Tommy Lee  
Section Engineer  
City and County of San Francisco  
Department of Public Works  
Bureau of Environmental Regulation  
and Management  
Bayview Plaza  
3801 - 3rd Street, Suite 600  
San Francisco, CA 94124

If you have any questions or wish further explanation, you may call Tommy Lee at (415) 695-7321.



**Table 1B. Additional Analytical Requirements For Batch Wastewater Discharges  
- Sources Suspected of Petroleum or Hazardous Waste Contamination**

| <u>Contaminant</u>   | <u>Analytical Test Methods<sup>1</sup></u> | <u>Regulatory Level<sup>2</sup><br/>(mg/L)</u> |
|----------------------|--|--|
| Flashpoint (°C, °F)  | 1010                                       | ≤ 60°C (140°F)                                 |
| Benzene              | 8020                                       | 0.5  |
| Carbon Tetrachloride | 8010, 8240                                 | 0.5  |
| Chlordane            | 8250 or 8270                               | 0.03   |
| Chlorobenzene        | 8020, 8240                                 | 100.0  |
| Chloroform           | 8010, 8240                                 | 6.0  |
| o-Cresol             | 8250 or 8270                               | 200.0  |
| m-Cresol             | 8250 or 8270                               | 200.0  |
| p-Cresol             | 8250 or 8270                               | 200.0  |
| Cresol               | 8250 or 8270                               | 200.0  |

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<sup>1</sup> Test Methods For Evaluating Solid Waste, U.S. Environmental Protection Agency, November 1986 (Rev. July 1992), 3rd ed., SW-846, as amended.

<sup>2</sup> Title 22, California Code of Regulations, Section 66261.24(a)(1)(B).

Table 1B. (Cont'd)

| <u>Contaminant</u>           | <u>Analytical Test Methods</u> | <u>Regulatory Level<br/>(mg/L)</u> |
|------------------------------|--------------------------------|------------------------------------|
| 2,4-D                        | 8250 or 8270                   | 10.0                               |
| 1,4-Dichlorobenzene          | 8010, 8250 or 8270             | 7.5                                |
| 1,2-Dichloroethane           | 8010, 8240                     | 0.5                                |
| 1,1-Dichloroethylene         | 8010, 8240                     | 0.7                                |
| 2,4-Dinitrotoluene           | 8250 or 8270                   | 0.13                               |
| Endrin                       | 8250 or 8270                   | 0.02                               |
| Heptachlor (and its epoxide) | 8250 or 8270                   | 0.008                              |
| Hexachlorobenzene            | 8250 or 8270                   | 0.13                               |
| Hexachlorobutadiene          | 8250 or 8270                   | 0.5                                |
| Hexachloroethane             | 8010, 8240                     | 3.0                                |
| Lindane                      | 8250 or 8270                   | 0.4                                |
| Methoxychlor                 | 8250 or 8270                   | 10.0                               |
| Methyl ethyl ketone          | 8240                           | 200.0                              |

Table 1B. (Cont'd)

| <u>Contaminant</u>    | <u>Analytical Test Methods</u> | <u>Regulatory Level<br/>(mg/L)</u> |
|-----------------------|--------------------------------|------------------------------------|
| Nitrobenzene          | 8250 or 8270                   | 2.0                                |
| Pentachlorophenol     | 8250 or 8270                   | 100.0                              |
| Pyridine              | 8250 or 8270                   | 5.0                                |
| Selenium              | 6010A, 7740, 7741              | 1.0                                |
| Tetrachloroethylene   | 8010, 8240                     | 0.7                                |
| Toxaphene             | 8250 or 8270                   | 0.5                                |
| Trichloroethylene     | 8010, 8240                     | 0.5                                |
| 2,4,5-Trichlorophenol | 8250 or 8270                   | 400.0                              |
| 2,4,6-Trichlorophenol | 8250 or 8270                   | 2.0                                |
| 2,4,5-TP (Silvex)     | 8250 or 8270                   | 1.0                                |
| Vinyl chloride        | 8010, 8240                     | 0.2                                |

Table 1B. (Cont'd)

| <u>Substance</u>                                  | <u>Analytical Test Methods</u> | <u>STLC<sup>7</sup></u><br>(mg/L) | <u>TTL<sup>8</sup></u><br>Wet-Weight<br>(mg/kg) |
|---|--------------------------------|-----------------------------------|---|
| Antimony and/or antimony compounds                | 6010A, 7040, 7041              | 15                                | 500   |
| Arsenic and/or arsenic compounds                  | 6010A, 7060, 7061              | 5.0                               | 500   |
| Asbestos  | 40 CFR Part 763 <sup>9</sup>   | ---                               | 1.0 (as percent)                                |
| Barium and/or barium compounds (excluding barite) | 6010A, 7080, 7081              | 100                               | 10,000 <sup>10</sup>                            |
| Beryllium and/or beryllium compounds              | 6010A, 7090, 7091              | 0.75                              | 75  |
| Cadmium and/or cadmium compounds                  | 6010A, 7130, 7131              | 1.0                               | 100   |
| Chromium (VI) compounds                           | 7198, 7195, 7196, 7197         | 5                                 | 500   |
| Chromium and/or chromium (III) compounds          | 6010A, 7190, 7191              | 5                                 | 2,500   |

<sup>7</sup> Soluble Threshold Limit Concentration. Title 22, California Code of Regulations, Section 66261.24(a)(2)(A).

<sup>8</sup> Total Threshold Limit Concentration. Title 22, California Code of Regulations, Section 66261.24(a)(2)(A).

<sup>9</sup> Interim Method for the Determination of Asbestos in Bulk Insulation Samples, 40 CFR Part 763, Subpart F, Appendix A.

<sup>10</sup> Excluding barium sulfate.

Table 1B. (Cont'd)

| <u>Substance</u>                       | <u>Analytical Test Methods</u>           | <u>STLC</u><br>(mg/L) | <u>TTLIC</u><br>Wet-Weight<br>(mg/kg) |
|--|--|-----------------------|---------------------------------------|
| Cobalt and/or cobalt compounds         | 6010A                                    | 80                    | 8,000                                 |
| Copper and/or copper compounds         | 6010A, 7210, 7211                        | 25                    | 2,500                                 |
| Fluoride salts                         | 300.0, 340.1, 340.2, 340.3 <sup>11</sup> | 180                   | 18,000                                |
| Lead and/or lead compounds             | 6010A, 7420, 7471                        | 5.0                   | 1,000                                 |
| Mercury and/or mercury compounds       | 7470, 7471                               | 0.2                   | 20                                    |
| Molybdenum and/or molybdenum compounds | 6010A                                    | 350                   | 3,500                                 |
| Nickel and/or nickel compounds         | 6010A, 7520, 7521                        | 20                    | 2,000                                 |
| Selenium and/or selenium compounds     | 6010A, 7740, 7741                        | 1.0                   | 100                                   |
| Silver and/or silver compounds         | 6010A, 7760, 7761                        | 5                     | 500                                   |
| Thallium and/or thallium compounds     | 6010A, 7840, 7841                        | 7.0                   | 700                                   |
| Vanadium and/or vanadium compounds     | 6010A, 7910, 7911                        | 24                    | 2,400                                 |
| Zinc and/or zinc compounds             | 6010A, 7950, 7951                        | 250                   | 5,000                                 |

<sup>11</sup> Methods for Chemical Analysis of Water and Wastes, EPA-600/4-79-020, U.S. Environmental Protection Agency, 1979.

Table 1B. (Cont'd)

| <u>Substance</u>               | <u>Analytical Test Methods</u>       | <u>STLC<sup>12</sup></u><br>(mg/L) | <u>T TLC<sup>13</sup></u><br>Wet-Weight<br>(mg/kg) |
|--------------------------------|--------------------------------------|------------------------------------|--|
| Aldrin                         | 8080, 8250 or 8270                   | 0.14                               | 1.4  |
| Chlordane                      | 8080, 8250 or 8270                   | 0.25                               | 2.5  |
| DDT, DDE, DDD                  | 8080, 8250 or 8270                   | 0.1                                | 1.0  |
| 2,4-Dichlorophenoxyacetic acid | 8150                                 | 10                                 | 100  |
| Dieldrin                       | 8080, 8250 or 8270                   | 0.8                                | 8.0  |
| Dioxin (2,3,7,8-TCDD)          | 8280                                 | 0.001                              | 0.01   |
| Endrin                         | 8080, 8250 or 8270                   | 0.02                               | 0.2  |
| Heptachlor                     | 8080, 8250 or 8270                   | 0.47                               | 4.7  |
| Kepone                         | Section 5, A, (5), (a) <sup>13</sup> | 2.1                                | 21   |

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<sup>12</sup> Title 22, California Code of Regulations, Section 66261.24(a)(2)(B).

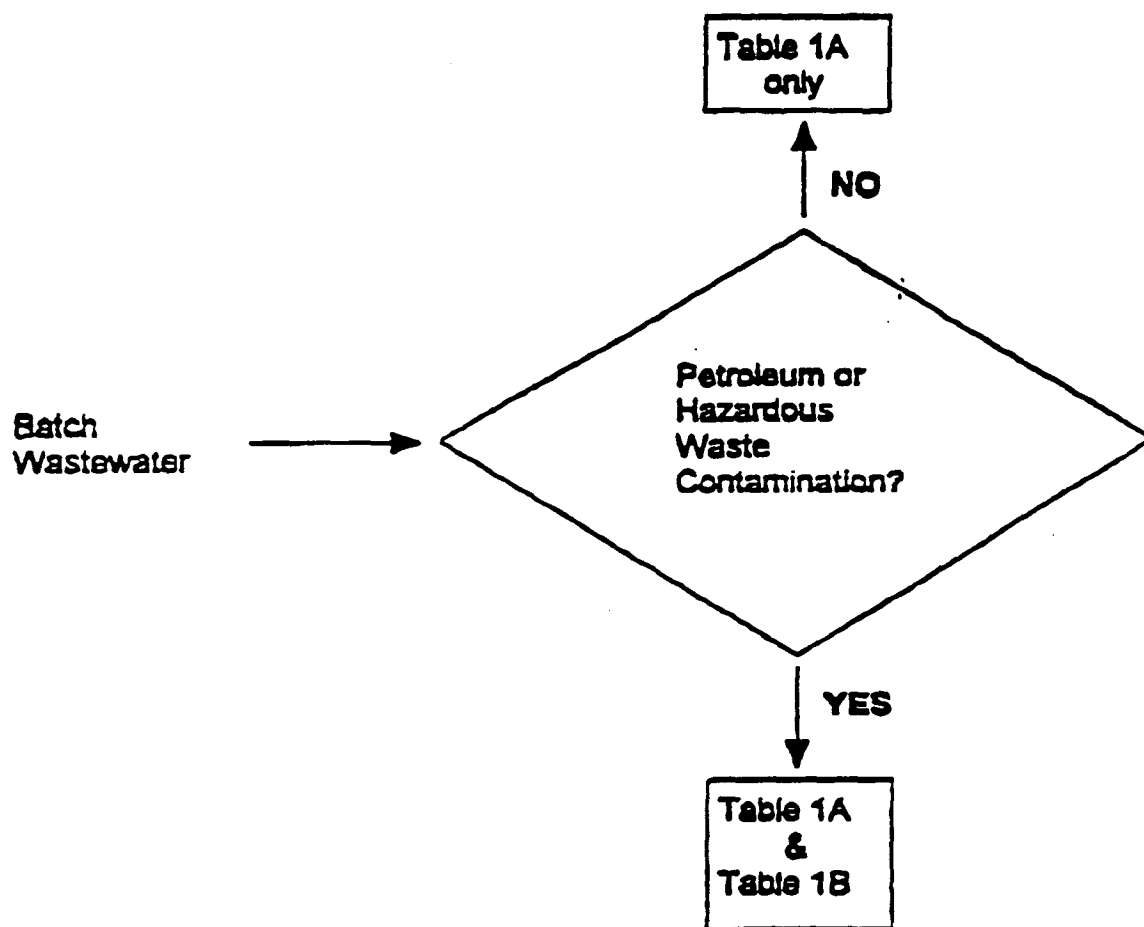
<sup>13</sup> Manual of Analytical Methods for the Analysis of Pesticides in Humans and Environmental Samples, EPA-600/8-80-038, U.S. Environmental Protection Agency, 1980.

Table 1B. (Cont'd)

| <u>Substance</u>                     | <u>Analytical Test Methods</u> | <u>STLC</u><br>(mg/L) | <u>TTL</u><br>Wet-Weight<br>(mg/kg) |
|--------------------------------------|--------------------------------|-----------------------|-------------------------------------|
| Lead compounds, organic              | Appendix XI <sup>16</sup>      | ---                   | 13                                  |
| Lindane                              | 8080, 8250 or 8270             | 0.4                   | 4.0                                 |
| Methoxychlor                         | 8080, 8250 or 8270             | 10                    | 100                                 |
| Mirex                                | 8080, 8250 or 8270             | 2.1                   | 21                                  |
| Pentachlorophenol                    | 8040, 8250 or 8270             | 1.7                   | 17                                  |
| Polychlorinated biphenyls (PCBs)     | 8080, 8250 or 8270             | 5.0                   | 50                                  |
| Toxaphene                            | 8080, 8250 or 8270             | 0.5                   | 5                                   |
| Trichloroethylene                    | 8010, 8240                     | 204                   | 2,040                               |
| 2,4,5-Trichlorophenoxypropionic acid | 8150                           | 1.0                   | 10                                  |

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<sup>16</sup> Title 22, California Code of Regulations, Section 66261.126, Appendix XI.

**BATCH WASTEWATER DISCHARGES****Required Analytical Results**





**City and County of San Francisco**  
**Department of Public Works**  
**Bureau of Environmental Regulation and Management**

**BATCH WASTEWATER PERMIT APPLICATION**

1. Name of business generating wastewater :

---

2. Mailing address of business generating wastewater :

---

---

3. Activity resulting in wastewater generation :

---

---

---

4. Location of wastewater generation :

---

---

5. Total estimated volume (or volume flow rate) of wastewater discharge :

---

6. Estimated duration of wastewater discharge :

---

7. Proposed sewer opening for discharge :

☐ Side Sewer; ☐ Street Sewer; ☐ Catch Basin; ☐ Manhole

8. Location of sewer opening :

---

9. Will the wastewater be subjected to any treatment before discharge ?

☐ YES; ☐ NO

10. If so, describe the method(s) of treatment :

---

---

---

---

11. Attach a copy of applicable analytical results from a representative sample of the wastewater. (See Tables 1A & 1B in "Requirements For Batch Wastewater Discharges")

12. Certification Statement :

I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name: \_\_\_\_\_ Title: \_\_\_\_\_

Signature<sup>1</sup>: \_\_\_\_\_ Date: \_\_\_\_\_

---

<sup>1</sup> To be signed by an authorized representative of the discharger. An authorized representative may be (a) a principal executive officer or official; (b) a general partner or proprietor; or (c) a duly authorized representative of the individual designated in (a) or (b).



## Volatile Organics by GC/MS

Client: IT Corporation  
 Project#: 767631  
 Location: Hunters Point

Analysis Method: EPA 8260  
 Prep Method: EPA 5030

Field ID: 61WW08  
 Lab ID: 130610-001  
 Matrix: Water  
 Batch#: 36240  
 Units: ug/L  
 Diln Fac: 1

Sampled: 09/12/97  
 Received: 09/12/97  
 Extracted: 09/12/97  
 Analyzed: 09/12/97

| Analyte                   | Result    | Reporting Limit |
|---------------------------|-----------|-----------------|
| Chloromethane             | ND        | 10              |
| Bromomethane              | ND        | 10              |
| Vinyl Chloride            | ND        | 10              |
| Chloroethane              | ND        | 10              |
| Methylene Chloride        | ND        | 20              |
| Acetone                   | ND        | 20              |
| Carbon Disulfide          | ND        | 5.0             |
| Trichlorofluoromethane    | ND        | 5.0             |
| 1,1-Dichloroethene        | ND        | 5.0             |
| 1,1-Dichloroethane        | ND        | 5.0             |
| trans-1,2-Dichloroethene  | ND        | 5.0             |
| cis-1,2-Dichloroethene    | 4.1 J     | 5.0             |
| Chloroform                | ND        | 5.0             |
| Freon 113                 | ND        | 5.0             |
| 1,2-Dichloroethane        | ND        | 5.0             |
| 2-Butanone                | ND        | 10              |
| 1,1,1-Trichloroethane     | ND        | 5.0             |
| Carbon Tetrachloride      | ND        | 5.0             |
| Vinyl Acetate             | ND        | 50              |
| Bromodichloromethane      | ND        | 5.0             |
| 1,2-Dichloropropane       | ND        | 5.0             |
| cis-1,3-Dichloropropene   | ND        | 5.0             |
| Trichloroethene           | 3.7 J     | 5.0             |
| Dibromochloromethane      | ND        | 5.0             |
| 1,1,2-Trichloroethane     | ND        | 5.0             |
| Benzene                   | ND        | 5.0             |
| trans-1,3-Dichloropropene | ND        | 5.0             |
| Bromoform                 | ND        | 5.0             |
| 2-Hexanone                | ND        | 10              |
| 4-Methyl-2-Pentanone      | ND        | 10              |
| 1,1,2,2-Tetrachloroethane | ND        | 5.0             |
| Tetrachloroethene         | ND        | 5.0             |
| Toluene                   | ND        | 5.0             |
| Chlorobenzene             | ND        | 5.0             |
| Ethylbenzene              | ND        | 5.0             |
| Styrene                   | ND        | 5.0             |
| m,p-Xylenes               | ND        | 5.0             |
| o-Xylene                  | ND        | 5.0             |
| Surrogate                 | %Recovery | Recovery Limits |
| 1,2-Dichloroethane-d4     | 108       | 87-121          |
| Toluene-d8                | 100       | 92-107          |
| Bromofluorobenzene        | 104       | 80-121          |

J: Estimated Value



## Semivolatile Organics by GC/MS

Client: IT Corporation  
Project#: 767631  
Location: Hunters Point

Analysis Method: EPA 8270B  
Prep Method: EPA 3520

Field ID: 61WW08  
Lab ID: 130610-001  
Matrix: Water  
Batch#: 36293  
Units: ug/L  
Diln Fac: 1

Sampled: 09/12/97  
Received: 09/12/97  
Extracted: 09/15/97  
Analyzed: 09/16/97

| Analyte                      | Result | Reporting Limit |
|------------------------------|--------|-----------------|
| Phenol                       | ND     | 9.4             |
| 2-Chlorophenol               | ND     | 9.4             |
| Benzyl alcohol               | ND     | 9.4             |
| 2-Methylphenol               | ND     | 9.4             |
| 3,4-Methylphenol             | ND     | 9.4             |
| 2-Nitrophenol                | ND     | 47              |
| 2,4-Dimethylphenol           | ND     | 9.4             |
| Benzoic acid                 | ND     | 47              |
| 2,4-Dichlorophenol           | ND     | 9.4             |
| 4-Chloro-3-methylphenol      | ND     | 9.4             |
| 2,4,6-Trichlorophenol        | ND     | 9.4             |
| 2,4,5-Trichlorophenol        | ND     | 47              |
| 2,4-Dinitrophenol            | ND     | 47              |
| 4-Nitrophenol                | ND     | 47              |
| 4,6-Dinitro-2-methylphenol   | ND     | 47              |
| Pentachlorophenol            | ND     | 9.4             |
| N-Nitrosodimethylamine       | ND     | 9.4             |
| Aniline                      | ND     | 9.4             |
| bis(2-Chloroethyl) ether     | ND     | 9.4             |
| 1,3-Dichlorobenzene          | ND     | 9.4             |
| 1,4-Dichlorobenzene          | ND     | 9.4             |
| 1,2-Dichlorobenzene          | ND     | 9.4             |
| bis(2-Chloroisopropyl) ether | ND     | 9.4             |
| N-Nitroso-di-n-propylamine   | ND     | 9.4             |
| Hexachloroethane             | ND     | 9.4             |
| Nitrobenzene                 | ND     | 9.4             |
| Isophorone                   | ND     | 9.4             |
| bis(2-Chloroethoxy) methane  | ND     | 9.4             |
| 1,2,4-Trichlorobenzene       | ND     | 9.4             |
| Naphthalene                  | ND     | 9.4             |
| 4-Chloroaniline              | ND     | 9.4             |
| Hexachlorobutadiene          | ND     | 9.4             |
| 2-Methylnaphthalene          | ND     | 9.4             |
| Hexachlorocyclopentadiene    | ND     | 47              |
| 2-Chloronaphthalene          | ND     | 9.4             |
| 2-Nitroaniline               | ND     | 47              |
| Dimethylphthalate            | ND     | 9.4             |
| Acenaphthylene               | ND     | 9.4             |



## Semivolatile Organics by GC/MS

|                    |                     |
|--------------------|---------------------|
| Field ID: 61WW08   | Sampled: 09/12/97   |
| Lab ID: 130610-001 | Received: 09/12/97  |
| Matrix: Water      | Extracted: 09/15/97 |
| Batch#: 36293      | Analyzed: 09/16/97  |
| Units: ug/L        |                     |
| Diln Fac: 1        |                     |

| Analyte                    | Result | Reporting Limit |
|----------------------------|--------|-----------------|
| 2,6-Dinitrotoluene         | ND     | 9.4             |
| 3-Nitroaniline             | ND     | 47              |
| Acenaphthene               | ND     | 9.4             |
| Dibenzofuran               | ND     | 9.4             |
| 2,4-Dinitrotoluene         | ND     | 9.4             |
| Diethylphthalate           | ND     | 9.4             |
| 4-Chlorophenyl-phenylether | ND     | 9.4             |
| Fluorene                   | ND     | 9.4             |
| 4-Nitroaniline             | ND     | 47              |
| N-Nitrosodiphenylamine     | ND     | 9.4             |
| Azobenzene                 | ND     | 9.4             |
| 4-Bromophenyl-phenylether  | ND     | 9.4             |
| Hexachlorobenzene          | ND     | 9.4             |
| Phenanthrene               | ND     | 9.4             |
| Anthracene                 | ND     | 9.4             |
| Di-n-butylphthalate        | ND     | 9.4             |
| Fluoranthene               | ND     | 9.4             |
| Pyrene                     | ND     | 9.4             |
| Butylbenzylphthalate       | ND     | 9.4             |
| 3,3'-Dichlorobenzidine     | ND     | 47              |
| Benzo(a)anthracene         | ND     | 9.4             |
| Chrysene                   | ND     | 9.4             |
| bis(2-Ethylhexyl)phthalate | ND     | 9.4             |
| Di-n-octylphthalate        | ND     | 9.4             |
| Benzo(b)fluoranthene       | ND     | 9.4             |
| Benzo(k)fluoranthene       | ND     | 9.4             |
| Benzo(a)pyrene             | ND     | 9.4             |
| Indeno(1,2,3-cd)pyrene     | ND     | 9.4             |
| Dibenz(a,h)anthracene      | ND     | 9.4             |
| Benzo(g,h,i)perylene       | ND     | 9.4             |

| Surrogate            | %Recovery | Recovery Limits |
|----------------------|-----------|-----------------|
| 2-Fluorophenol       | 73        | 21-110          |
| Phenol-d5            | 75        | 10-110          |
| 2,4,6-Tribromophenol | 82        | 10-123          |
| Nitrobenzene-d5      | 77        | 35-114          |
| 2-Fluorobiphenyl     | 76        | 43-116          |
| Terphenyl-d14        | 56        | 33-141          |



## Organochlorine Pesticides and PCBs

| Client: IT Corporation  | Analysis Method: EPA 8080 |                 |
|-------------------------|---------------------------|-----------------|
| Project#: 767631        | Prep Method: EPA 3520     |                 |
| Location: Hunters Point |                           |                 |
| Field ID: 61WW08        | Sampled: 09/12/97         |                 |
| Lab ID: 130610-001      | Received: 09/12/97        |                 |
| Matrix: Water           | Extracted: 09/12/97       |                 |
| Batch#: 36252           | Analyzed: 09/17/97        |                 |
| Units: ug/L             |                           |                 |
| Diln Fac: 1             |                           |                 |
| Analyte                 | Result                    | Reporting Limit |
| alpha-BHC               | ND                        | 0.047           |
| beta-BHC                | ND                        | 0.047           |
| gamma-BHC               | ND                        | 0.047           |
| delta-BHC               | ND                        | 0.047           |
| Heptachlor              | ND                        | 0.047           |
| Aldrin                  | ND                        | 0.047           |
| Heptachlor epoxide B    | ND                        | 0.047           |
| Heptachlor epoxide A    | ND                        | 0.047           |
| Endosulfan I            | ND                        | 0.047           |
| Dieldrin                | ND                        | 0.094           |
| 4,4'-DDE                | ND                        | 0.094           |
| Endrin                  | ND                        | 0.094           |
| Endosulfan II           | ND                        | 0.094           |
| Endosulfan sulfate      | ND                        | 0.094           |
| 4,4'-DDD                | ND                        | 0.094           |
| Endrin aldehyde         | ND                        | 0.094           |
| 4,4'-DDT                | ND                        | 0.094           |
| Chlordane               | ND                        | 0.47            |
| Methoxychlor            | ND                        | 0.47            |
| Toxaphene               | ND                        | 0.94            |
| Mirex                   | ND                        | 0.94            |
| Kepone                  | ND                        | 0.94            |
| Aroclor-1016            | ND                        | 0.47            |
| Aroclor-1221            | ND                        | 0.94            |
| Aroclor-1232            | ND                        | 0.47            |
| Aroclor-1242            | ND                        | 0.47            |
| Aroclor-1248            | ND                        | 0.47            |
| Aroclor-1254            | ND                        | 0.47            |
| Aroclor-1260            | ND                        | 0.47            |
| Surrogate               | %Recovery                 | Recovery Limits |
| TCMX                    | 76                        | 60-140          |
| Decachlorobiphenyl      | 40*                       | 60-140          |

\* Values outside of QC limits



Curtis &amp; Tompkins, Ltd.

SAMPLE ID: 61WW08  
LAB ID: 130610-001  
CLIENT: IT Corporation  
PROJECT ID: 767631  
LOCATION: Hunters Point  
MATRIX: Water

DATE SAMPLED: 09/12/97  
DATE RECEIVED: 09/12/97  
DATE REPORTED: 09/16/97

## California TITLE 26 Metals

| Compound         | Result<br>(ug/L) | Reporting<br>Limit<br>(ug/L) | IDF | QC<br>Batch | Method    | Analysis<br>Date |
|------------------|------------------|------------------------------|-----|-------------|-----------|------------------|
| Antimony         | 70               | 60                           | 1   | 36287       | EPA 6010A | 09/16/97         |
| Arsenic          | ND               | 5.0                          | 1   | 36287       | EPA 6010A | 09/16/97         |
| Barium           | 220              | 10                           | 1   | 36287       | EPA 6010A | 09/16/97         |
| Beryllium        | ND               | 2.0                          | 1   | 36287       | EPA 6010A | 09/16/97         |
| Cadmium          | ND               | 5.0                          | 1   | 36287       | EPA 6010A | 09/16/97         |
| Chromium (total) | ND               | 10                           | 1   | 36287       | EPA 6010A | 09/16/97         |
| Cobalt           | ND               | 20                           | 1   | 36287       | EPA 6010A | 09/16/97         |
| Copper           | 93               | 10                           | 1   | 36287       | EPA 6010A | 09/16/97         |
| Lead             | 8.9              | 3.0                          | 1   | 36287       | EPA 6010A | 09/16/97         |
| Mercury          | 0.26             | 0.20                         | 1   | 36270       | EPA 7470  | 09/15/97         |
| Molybdenum       | 640              | 20                           | 1   | 36287       | EPA 6010A | 09/16/97         |
| Nickel           | 44               | 20                           | 1   | 36287       | EPA 6010A | 09/16/97         |
| Selenium         | ND               | 5.0                          | 1   | 36287       | EPA 6010A | 09/16/97         |
| Silver           | ND               | 5.0                          | 1   | 36287       | EPA 6010A | 09/16/97         |
| Thallium         | ND               | 5.0                          | 1   | 36287       | EPA 6010A | 09/16/97         |
| Vanadium         | ND               | 10                           | 1   | 36287       | EPA 6010A | 09/16/97         |
| Zinc             | 180              | 20                           | 1   | 36287       | EPA 6010A | 09/16/97         |

ND = Not detected at or above reporting limit



Curtis & Tompkins, Ltd

Client: IT Corporation

Laboratory Login Number: 130610

Project Name: Hunters Point

Report Date: 16 September 97

Project Number: 767631

ANALYSIS: Total Oil & Grease (Gravimetric)

METHOD: SMWW 17:5520B

| Lab ID     | Sample ID | Matrix | Sampled   | Received  | Analyzed  | Result | Units | RL | Analyst | QC Batch |
|------------|-----------|--------|-----------|-----------|-----------|--------|-------|----|---------|----------|
| 130610-001 | 61WW08    | Water  | 12-SEP-97 | 12-SEP-97 | 16-SEP-97 | ND     | mg/L  | 5  | SDG     | 36319    |

ND = Not Detected at or above Reporting Limit (RL).





Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 130610  
CLIENT: IT Corporation  
PROJECT#: 767631  
LOCATION: HUNTERS POINT

DATE SAMPLED: 09/12/97  
DATE RECEIVED: 09/12/97  
DATE ANALYZED: 09/16/97  
BATCH#: 36307

=====

ANALYSIS: CHEMICAL OXYGEN DEMAND  
ANALYSIS METHOD: EPA 410.4

=====

| LAB ID       | SAMPLE ID | RESULT | UNITS | REPORTING LIMIT |
|--------------|-----------|--------|-------|-----------------|
| 130610-001   | 61WW08    | 40     | mg/L  | 10              |
| METHOD BLANK | N/A       | ND     | mg/L  | 10              |

ND = Not detected at or above reporting limit.

QA/QC SUMMARY: LCS, MS/MSD OF SAMPLE 130578-002

=====

|               |    |
|---------------|----|
| LCS REC, %    | 98 |
| MS/MSD REC, % | 87 |
| RPD, %        | 5  |

=====

LABORATORY NUMBER: 130610  
 CLIENT: IT Corporation  
 PROJECT#: 767631  
 LOCATION: HUNTERS POINT

DATE SAMPLED: 09/12/97  
 DATE RECEIVED: 09/12/97  
 DATE ANALYZED: 09/15/97  
 BATCH#: 36298

=====

ANALYSIS: CYANIDE  
 ANALYSIS METHOD: EPA 335.2

=====

| LAB ID       | SAMPLE ID | RESULT | UNITS | REPORTING LIMIT |
|--------------|-----------|--------|-------|-----------------|
| 130610-001   | 61WW08    | ND     | ug/L  | 10              |
| METHOD BLANK | N/A       | ND     | ug/L  | 10              |

ND = Not detected at or above reporting limit.

QA/QC SUMMARY: BLANK SPIKE AND BLANK SPIKE DUPLICATE

=====

|        |    |
|--------|----|
| REC, % | 93 |
| RPD, % | 2  |

=====

LABORATORY NUMBER: 130610  
CLIENT: IT Corporation  
PROJECT#: 767631  
LOCATION: HUNTERS POINT

DATE SAMPLED: 09/12/97  
DATE RECEIVED: 09/12/97  
DATE ANALYZED: 09/16/97  
BATCH#: 36303

===== :  
ANALYSIS: FLASH POINT  
ANALYSIS METHOD: EPA 1010  
===== :

| LAB ID     | SAMPLE ID | RESULT | UNITS |
|------------|-----------|--------|-------|
| 130610-001 | 61WW08    | >150   | F     |

ND = Not detected at or above reporting limit.

QA/QC SUMMARY: SAMPLE DUPLICATE OF 130610-001

===== :  
RPD, % 0  
===== :

LABORATORY NUMBER: 130610  
 CLIENT: IT Corporation  
 PROJECT#: 767631  
 LOCATION: HUNTERS POINT

DATE SAMPLED: 09/12/97  
 DATE RECEIVED: 09/12/97  
 DATE ANALYZED: 09/15/97  
 BATCH#: 36294

=====

ANALYSIS: FLUORIDE  
 ANALYSIS METHOD: EPA 340.2

=====

| LAB ID       | SAMPLE ID | RESULT | UNITS | REPORTING LIMIT |
|--------------|-----------|--------|-------|-----------------|
| 130610-001   | 61WW08    | 1.2    | mg/L  | 0.25            |
| METHOD BLANK | N/A       | ND     | mg/L  | 0.25            |

ND = Not detected at or above reporting limit.

QA/QC SUMMARY: SAMPLE DUPLICATE OF 130502-002

=====

RPD, % <1%

=====



Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 130610  
CLIENT: IT Corporation  
PROJECT#: 767631  
LOCATION: HUNTERS POINT

DATE SAMPLED: 09/12/97  
DATE RECEIVED: 09/12/97  
DATE ANALYZED: 09/15/97  
BATCH#: 36275

===== :  
ANALYSIS: PHENOLIC COMPOUNDS  
ANALYSIS METHOD: EPA 420.1  
===== :

| LAB ID       | SAMPLE ID | RESULT | UNITS | REPORTING LIMIT |
|--------------|-----------|--------|-------|-----------------|
| 130610-001   | 61WW08    | ND     | ug/L  | 50              |
| METHOD BLANK | N/A       | ND     | ug/L  | 50              |

ND = Not detected at or above reporting limit.

QA/QC SUMMARY: BLANK SPIKE AND BLANK SPIKE DUPLICATE

===== :  
REC, % 97  
RPD, % 4  
===== :



Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 130610  
CLIENT: IT Corporation  
PROJECT#: 767631  
LOCATION: HUNTERS POINT

DATE SAMPLED: 09/12/97  
DATE RECEIVED: 09/12/97  
DATE ANALYZED: 09/15/97  
BATCH#: 36286

===== :  
ANALYSIS: DISSOLVED SULFIDE  
ANALYSIS METHOD: EPA 376.2  
===== :

| LAB ID       | SAMPLE ID | RESULT | UNITS | REPORTING LIMIT |
|--------------|-----------|--------|-------|-----------------|
| 130610-001   | 61WW08    | ND     | mg/L  | 0.04            |
| METHOD BLANK | N/A       | ND     | mg/L  | 0.04            |

ND = Not detected at or above reporting limit.

QA/QC SUMMARY: LCS, MS/MSD OF SAMPLE 130578-002

===== :  
LCS REC, % 97  
MS/MSD REC, % 99  
RPD, % 1  
===== :



Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 130610  
CLIENT: IT Corporation  
PROJECT#: 767631  
LOCATION: HUNTERS POINT

DATE SAMPLED: 09/12/97  
DATE RECEIVED: 09/12/97  
DATE ANALYZED: 09/15/97  
BATCH#: 36292

===== :  
ANALYSIS: TOTAL SUSPENDED SOLIDS  
ANALYSIS METHOD: EPA 160.2  
===== :

| LAB ID       | SAMPLE ID | RESULT | UNITS | REPORTING LIMIT |
|--------------|-----------|--------|-------|-----------------|
| 130610-001   | 61WW08    | ND     | mg/L  | 5               |
| METHOD BLANK | N/A       | ND     | mg/L  | 5               |

ND = Not detected at or above reporting limit.

QA/QC SUMMARY: SAMPLE DUPLICATE OF 130610-001

===== :  
RPD, % <1%  
===== :

## **2.4 Catch Basin/Manhole Cleaning**

Each catch basin/manhole was inspected during the project. Any catch basin/manhole which was found to contain sediment, debris or liquids, or which required cleaning was cleaned (Appendix A, Photo 9). A few catch basins/manholes which were located in hard-to-reach places were cleaned using a flex hose extension on the vactor truck. A catch basin in Basin II was located under a permanent office trailer and could not be inspected or cleaned. A catch basin which appeared to have been taken out of service, was found backfilled with concrete and therefore not cleaned. Catch basins/manholes which were adjacent to outfall pipes or discharged directly in the Bay also could not be cleaned.

During the removal action, it was discovered that some catch basins/manholes had become buried over the years under soil or pavement. In order to locate these catch basins/manholes, a special locating device was attached to a video camera and then run through the line to the approximate location of the buried catch basin/manhole. A laborer on the surface would then use a jackhammer or other equipment to remove the surface material in the general area of that locating device's signal in order to uncover the catch basin/manhole. Following cleaning, several of these catch basins/manholes had to be raised or rebuilt to the existing grade (Appendix A, Photo 8).

Approximately 62 catch basins/manholes contained liquids which had to be removed prior to cleaning, while approximately 388 catch basins contained sediments which had to be removed (Appendix A, Photo 10). The sediments in many of the catch basin sediment traps were so cemented that they could not be removed by the jetting or the vactor truck. In these cases, a laborer was lowered into the catch basin to manually chip and break up the sediments so that they could be removed by the vactor truck.

Every effort was made during the project to properly distinguish a catch basin (CB) from a manhole (MH). Initially, a catch basin was defined for the project as a drainage structure with a sediment trap. However, several drainage structures had grated covers with no sediment trap, which classified them as catch basins.

A detailed log of the catch basins/manholes cleaned during the project is presented in Appendix C. The location of each catch basin/manhole is shown on the as-built drawings (Figures 3-1 through 3-10). The catch basin/manhole numbering system shown on the as-built drawings and



logs was developed for this project since the existing HPS numbering system did not cover the entire storm drain system.

## ***2.5 Liquid Disposal***

During times when high volumes of liquids were being removed during cleaning activities, the excess water stored in the four clean water storage tanks at the phase separation system had to be removed to provide new capacity for the system to continue to operate. This water was sampled and analyzed in order to obtain a permit from the City of San Francisco to discharge the water into HPS sanitary sewer system at Pump Station A. Approximately 1.3 million gallons of permitted water were discharged to the City during the project. Copies of the City of San Francisco Single Batch Discharge Permits are included in Appendix D.

## ***2.6 Sediment Disposal***

Sediments collected in the phase separators were initially placed in the temporary stockpile area. Later in the project, sediments remained containerized in the phase separators, which were then used to transport the sediments to their final disposal site. Over 1,200 tons of hazardous sediments were removed from the storm drain system during the project. These sediments were sampled and analyzed for the parameters shown in the project Sampling and Analysis Plan. Summary tables showing the analytical “hit” results for sediments sampled during the project in the stockpile area and later in the phase separators prior to their disposal are included in Appendix E. Overall, the analytical results indicated high concentrations of total petroleum hydrocarbons (TPH), metals (i.e., lead, copper), and polychlorinated biphenyls (PCBs), which determined the final disposal site. Following sampling, the stockpiled sediments were loaded onto trucks and transported for final disposal destination (Appendix A, Photo 12).

Based on the analytical results, approximately 680 tons of sediment were classified as a California hazardous waste, and approximately 210 tons of sediment were classified as a RCRA waste, based on metals (i.e., lead) concentrations above the toxicity characterization leaching procedure (TCLP) level, which required stabilization prior to landfilling. Both of the above waste classifications were disposed of at Chemical Waste Management’s Class I landfill at Kettleman Hills, California.

**TABLE B-1 (a)**  
**BASIN I STORM DRAIN CLEANING SUMMARY REPORT**

| From:<br>MH/CB | To : MH/CB | Pipe Dia. (in)/<br>Type of Pipe | 1st Clean-up<br>Date | Cleaned<br>(ft) | Uncleaned<br>(ft) | 2nd Clean-up<br>Date | Cleaned<br>(ft) | Uncleaned<br>(ft) | 3rd Clean-up<br>Date | Cleaned<br>(ft) | Uncleaned<br>(ft) | Remarks   |
|----------------|------------|---------------------------------|----------------------|-----------------|-------------------|----------------------|-----------------|-------------------|----------------------|-----------------|-------------------|---|
| CB A2-1        | CB A2-2    | 8/VCP                           | 12/16/96             | 300             | 0                 | 1/28/97              | 300             | 0                 |                      |                 |                   |   |
| CB A3-1        | CB A3-2    | 8/VCP                           | 12/16/96             | 232             | 0                 | 1/21/97              | 232             | 0                 |                      |                 |                   |   |
| CB A3-1        | CB A3      | 8/conc.                         | 12/16/96             | 200             | 0                 | 1/21/97              | 220             | 0                 |                      |                 |                   |   |
| CB A6-7        | CB A6-8    | 8/VCP                           | 12/23/96             | 58              | 0                 | 1/27/97              | 58              | 0                 |                      |                 |                   |   |
| CB A7-1        | lateral    | 8/VCP                           | 1/16/97              | 145             | 11                | 4/23/97              | 156             | 0                 |                      |                 |                   | Not accessible for complete 1st line cleaning - 90° elbow   |
| CB B13         | CB B14     | 15/VCP                          | 9/3/97               | 202             | 0                 |                      |                 |                   |                      |                 |                   |   |
| CB B8-1        | CB B8-2    | 10/VCP                          | 5/14/97              | 165             | 0                 | 6/17/97              | 165             | 0                 |                      |                 |                   |   |
| CB B8-5        | MH B8      | 18/VCP                          | 4/22/97              | 205             | 0                 |                      |                 |                   |                      |                 |                   |   |
| CB B8-5        | CB M3      | 8/RCP                           | 4/23/97              | 170             | 0                 | 5/1/97               | 170             | 0                 |                      |                 |                   |   |
| CB B8-5        | CB B8-6    | 8/RCP                           | 4/23/97              | 50              | 0                 | 5/1/97               | 50              | 0                 |                      |                 |                   |   |
| CB C2          | CB C3      | 15/VCP                          | 5/1/97               | 215             | 0                 | 5/6/97               | 215             | 0                 |                      |                 |                   |   |
| CB C2          | lateral    | 6/VCP                           | 5/2/97               | 120             | 0                 | 5/13/97              | 75              | 45                | 9/2/97               | 120             | 0                 | Not accessible for complete 2nd line cleaning - debris      |
| CB C2          | CB C2-1    | 6/VCP                           | 5/2/97               | 115             | 0                 | 5/13/97              | 115             | 0                 |                      |                 |                   |   |
| CB C2          | CB C2-2    | 12/RCP                          | 5/5/97               | 170             | 0                 | 5/6/97               | 170             | 0                 |                      |                 |                   |   |
| CB C2-2        | CB C2-3    | 12/RCP                          | 5/5/97               | 180             | 0                 | 5/6/97               | 180             | 0                 |                      |                 |                   |   |
| CB C2-2        | lateral    | 8/RCP                           | 5/5/97               | 82              | 82                | 5/6/97               | 164             | 0                 |                      |                 |                   | Not accessible for complete 1st line cleaning - debris      |
| CB C2-3        | CB C2-4    | 10/RCP                          | 5/5/97               | 150             | 0                 | 5/6/97               | 150             | 0                 |                      |                 |                   |   |
| CB C2-4        | CB C2-5    | 10/RCP                          | 5/5/97               | 92              | 0                 | 5/6/97               | 92              | 0                 |                      |                 |                   |   |
| CB C3          | CB C6      | 6/VCP                           | 5/6/97               | 120             | 0                 | 5/13/97              | 120             | 0                 |                      |                 |                   |   |
| CB C3          | CB C4      | 10/VCP                          | 5/6/97               | 36              | 0                 | 5/13/97              | 36              | 0                 |                      |                 |                   |   |
| CB C3          | CB F3      | 15/VCP                          | 5/6/97               | 28              | 0                 | 5/13/97              | 28              | 0                 |                      |                 |                   |   |
| CB C3          | CB C5      | 8/Corr                          | 5/6/97               | 60              | 0                 | 5/9/97               | 60              | 0                 |                      |                 |                   |   |
| CB E13         | CB E15     | 15/VCP                          | 2/4/97               | 157             | 0                 | 3/26/97              | 157             | 0                 |                      |                 |                   |   |
| CB E13         | CB E9      | 15/VCP                          | 2/4/97               | 135             | 0                 |                      |                 |                   |                      |                 |                   |   |
| CB E13         | MH E14     | 21/VCP                          | 2/5/97               | 120             | 0                 | 5/6/97               | 120             | 0                 |                      |                 |                   |   |
| CB E15         | Inlet E16  | 15/Corr                         | 2/3/97               | 76              | 62                | 5/7/97               | 138             | 0                 |                      |                 |                   | Not accessible for complete 1st line cleaning - bend        |
| CB E15         | lateral    | 8/VCP                           | 2/3/97               | 70              | 0                 | 5/7/97               | 70              | 0                 |                      |                 |                   |   |
| CB E15         | MH E17     | 15/VCP                          | 2/3/97               | 75              | 0                 | 3/26/97              | 75              | 0                 |                      |                 |                   |   |
| CB E15         | lateral    | 15/Corr.                        | 5/7/97               | 75              | 55                | 6/17/97              | 130             | 0                 |                      |                 |                   | Not accessible for complete 1st line cleaning - obstruction |
| CB E2-3        | CB C5      | 8/Corr                          | 5/6/97               | 153             | 0                 | 5/9/97               | 153             | 0                 |                      |                 |                   |   |
| CB E2-3        | lateral    | 8/Corr.                         | 5/6/97               | 146             | 154               | 5/9/97               | 146             | 154               |                      |                 |                   | Broken line   |
| CB E3          | MH E4      | 15/Metal                        | 2/3/97               | 90              | 0                 | 4/7/97               | 90              | 0                 |                      |                 |                   |   |
| CB E9          | CB E11     | 12/VCP                          | 2/4/97               | 60              | 0                 | 5/16/97              | 60              | 0                 |                      |                 |                   |   |
| CB F1          | CB P1-1    | 15/VCP                          | 5/7/97               | 38              | 0                 | 6/17/97              | 38              | 0                 |                      |                 |                   |   |
| CB F1          | CB F2      | 48/RCP                          | 5/7/97               | 245             | 0                 | 5/8/97               | 245             | 0                 |                      |                 |                   |   |
| CB F2-1        | CB F2      | 15/RCP                          | 5/8/97               | 290             | 0                 | 5/8/97               | 290             | 0                 |                      |                 |                   |   |

**TABLE B-1 (a)**  
**BASIN I STORM DRAIN CLEANING SUMMARY REPORT**

| From:<br>MH/CB      | To : MH/CB          | Pipe Dia. (in)/<br>Type of Pipe | 1st Clean-up<br>Date | Cleaned<br>(ft) | Uncleaned<br>(ft) | 2nd Clean-up<br>Date | Cleaned<br>(ft) | Uncleaned<br>(ft) | 3rd Clean-up<br>Date | Cleaned<br>(ft) | Uncleaned<br>(ft) | Remarks   |
|---------------------|---------------------|---------------------------------|----------------------|-----------------|-------------------|----------------------|-----------------|-------------------|----------------------|-----------------|-------------------|---|
| CB F4 (thru F3)     | CB F2               | 48/RCP                          | 5/8/97               | 250             | 0                 | 5/9/97               | 250             | 0                 |                      |                 |                   |   |
| CB I1               | lateral             | 6/VCP                           | 2/6/97               | 257             | 0                 | 5/1/97               | 257             | 0                 |                      |                 |                   |   |
| CB I14              | CB I14-1            | 12                              | 5/6/97               | 60              | 0                 | 6/17/97              | 60              | 0                 |                      |                 |                   |   |
| CB I14-2            | CB I14-3            | 12/PVC                          | 2/13/97              | 60              | 0                 |                      |                 |                   |                      |                 |                   |   |
| CB I14-2            | CB I14-1            | 12/PVC                          | 2/13/97              | 54              | 0                 | 9/2/97               | 54              | 0                 |                      |                 |                   |   |
| CB I14-3            | CB I14-4            | 10/PVC                          | 2/13/97              | 63              | 0                 |                      |                 |                   |                      |                 |                   |   |
| CB I14-4            | CB I14-5            | 8/PVC                           | 2/13/97              | 60              | 0                 |                      |                 |                   |                      |                 |                   |   |
| CB I3               | lateral Bldg<br>406 | 6/CIP                           | 2/6/97               | 257             | 0                 | 4/30/97              | 257             | 0                 |                      |                 |                   |   |
| CB I8-3             | CB I8-4             | 8/PVC                           | 2/10/97              | 107             | 0                 | 5/1/97               | 107             | 0                 |                      |                 |                   |   |
| CB I8-3             | MH I8-1             | 10/PVC                          | 2/10/97              | 90              | 0                 | 5/1/97               | 90              | 0                 |                      |                 |                   |   |
| CB I9               | CB I9-1             | 8/VCP                           | 2/10/97              | 87              | 0                 | 5/1/97               | 87              | 0                 |                      |                 |                   |   |
| CB I9-2             | MH I9               | 8/PVC                           | 2/12/97              | 51              | 0                 | 5/5/97               | 51              | 0                 |                      |                 |                   |   |
| CB K3               | CB K5               | 6/CSP                           | 5/21/97              | 150             | 90                | 6/17/97              | 100             | 140               |                      |                 |                   | Not accessible for complete line cleaning - obstruction   |
| CB L6               | CB L7               | 8/Corr.                         | 5/7/97               | 250             | 0                 | 5/15/97              | 250             | 0                 |                      |                 |                   |   |
| CB L7               | CB L8               | 8/Corr.                         | 5/7/97               | 37              | 233               |                      |                 |                   |                      |                 |                   | Broken line   |
| CB L7               | MH L7-1             | 8                               | 5/7/97               | 20              | 0                 |                      |                 |                   |                      |                 |                   |   |
| CB L8               | 90 CBL9             | 6/Corr.                         | 5/7/97               | 128             | 47                | 5/15/97              | 175             | 0                 |                      |                 |                   | Not accessible for complete 1st line cleaning - 90" elbow |
| CB L9               | 90 CB L8            | 6/Corr.                         | 5/7/97               | 55              | 0                 |                      |                 |                   |                      |                 |                   |   |
| CB M3-1             | CB M3               | 8/RCP                           | 4/23/97              | 154             | 0                 | 5/2/97               | 154             | 0                 |                      |                 |                   |   |
| CB N2               | MH N1               | 8/VCP                           | 5/14/97              | 100             | 0                 | 6/17/97              | 100             | 0                 |                      |                 |                   |   |
| Div. Struct.<br>"B" | MH B1               | 24/VCP                          | 1/14/97              | 20              | 0                 | 4/30/97              | 20              | 0                 |                      |                 |                   |   |
| Div. Struct.<br>"B" | MH B4               | 25/VCP                          | 1/15/97              | 335             | 0                 | 4/7/97               | 335             | 0                 |                      |                 |                   |   |
| MH A1               | lateral             | 10/CIP                          | 12/16/96             | 200             | 0                 |                      |                 |                   |                      |                 |                   |   |
| MH A1               | lateral             | 6/CMP                           | 12/17/96             | 82              | 0                 | 5/2/97               | 82              | 0                 |                      |                 |                   |   |
| MH A2               | CB A2-1             | 8/VCP                           | 12/16/96             | 188             | 0                 | 1/21/97              | 188             | 0                 |                      |                 |                   |   |
| MH A2               | MH A1               | 15/VCP                          | 12/17/96             | 201             | 0                 | 1/21/97              | 201             | 0                 |                      |                 |                   |   |
| MH A2               | MH A3               | 18/VCP                          | 12/17/96             | 202             | 0                 | 1/28/97              | 202             | 0                 |                      |                 |                   |   |
| MH A3               | MH A4               | 21/VCP                          | 12/17/96             | 204             | 0                 | 1/28/97              | 162             | 42                |                      |                 |                   | Not accessible for complete 2nd line cleaning - debris    |
| MH A4               | MH A5               | 21/VCP                          | 1/13/97              | 200             | 0                 | 1/28/97              | 200             | 0                 |                      |                 |                   |   |
| MH A5               | MH A6               | 21/VCP                          | 12/23/96             | 189             | 0                 | 1/28/97              | 189             | 0                 |                      |                 |                   |   |
| MH A6               | MH A6-1             | 21/VCP                          | 12/13/96             | 154             | 0                 | 1/27/97              | 140             | 0                 |                      |                 |                   |   |
| MH A6               | MH A7               | 33/VCP                          | 1/13/97              | 390             | 0                 | 1/27/97              | 390             | 0                 |                      |                 |                   |   |
| MH A6-1             | lateral             | 8/VCP                           | 12/13/96             | 154             | 0                 | 1/24/97              | 154             | 0                 |                      |                 |                   |   |
| MH A6-1             | CB A6-1             | 8/VCP                           | 12/16/96             | 6               | 0                 |                      |                 |                   |                      |                 |                   |   |

**TABLE B-1 (a)**  
**BASIN I STORM DRAIN CLEANING SUMMARY REPORT**

| From:<br>MH/CB | To : MH/CB          | Pipe Dia. (in)/<br>Type of Pipe | 1st Clean-up<br>Date | Cleaned<br>(ft) | Uncleaned<br>(ft) | 2nd Clean-up<br>Date | Cleaned<br>(ft) | Uncleaned<br>(ft) | 3rd Clean-up<br>Date | Cleaned<br>(ft) | Uncleaned<br>(ft) | Remarks   |
|----------------|---------------------|---------------------------------|----------------------|-----------------|-------------------|----------------------|-----------------|-------------------|----------------------|-----------------|-------------------|---|
| MH A6-2        | MH A6-3             | 6/VCP                           | 12/13/96             | 170             | 0                 | 1/24/97              | 170             | 0                 |                      |                 |                   |   |
| MH A6-2        | CB A6-2             | 8/VCP                           | 12/13/96             | 4               | 0                 |                      |                 |                   |                      |                 |                   |   |
| MH A6-2        | MH A6-1             | 15/VCP                          | 12/13/96             | 165             | 0                 | 1/24/97              | 165             | 0                 |                      |                 |                   |   |
| MH A6-2        | lateral             | 5/VCP                           | 12/13/96             | 40              | 0                 | 5/2/97               | 40              | 0                 |                      |                 |                   |   |
| MH A6-4        | MH A6               | 21/VCP                          | 1/13/97              | 204             | 0                 | 1/27/97              | 204             | 0                 |                      |                 |                   |   |
| MH A6-5        | MH A6-6             | 18/VCP                          | 12/26/96             | 202             | 0                 | 1/27/97              | 202             | 0                 |                      |                 |                   |   |
| MH A6-5        | lateral             | 8/VCP                           | 12/23/96             | 58              | 100               | 1/27/97              | 58              | 100               |                      |                 |                   | Not accessible for complete line cleaning - obstruction     |
| MH A6-5        | MH A6-4             | 18/VCP                          | 1/13/97              | 200             | 0                 | 1/27/97              | 200             | 0                 |                      |                 |                   |   |
| MH A6-6        | CB A6-7             | 8/VCP                           | 12/23/96             | 21              | 0                 | 1/27/97              | 21              | 0                 |                      |                 |                   |   |
| MH A7-1        | MH A7               | 24/VCP                          | 1/16/97              | 150             | 0                 | 1/27/97              | 150             | 0                 |                      |                 |                   |   |
| MH A7-1        | CB A7-1             | 8/VCP                           | 1/16/97              | 5               | 0                 |                      |                 |                   |                      |                 |                   |   |
| MH A7-2        | MH A7-1             | 24/VCP                          | 1/16/97              | 170             | 0                 | 1/27/97              | 170             | 0                 |                      |                 |                   |   |
| MH A7-2        | lateral             | 6/VCP                           | 1/16/97              | 24              | 126               | 5/12/97              | 24              | 126               |                      |                 |                   | Broken line   |
| MH A7-2        | lateral             | 8/VCP                           | 1/16/97              | 84              | 56                | 5/20/97              | 140             | 0                 |                      |                 |                   | Not accessible for complete line cleaning - obstruction     |
| MH A7-3        | MH A7               | 18/VCP                          | 1/14/97              | 210             | 0                 | 1/27/97              | 210             | 0                 |                      |                 |                   |   |
| MH B1          | MH C2               | 15/VCP                          | 1/21/97              | 369             | 0                 | 4/30/97              | 369             | 0                 |                      |                 |                   |   |
| MH B1          | MH P4               | 18/VCP                          | 5/8/97               | 180             | 0                 | 5/9/97               | 180             | 0                 |                      |                 |                   |   |
| MH B1          | CB P3               | 10/VCP                          | 5/8/97               | 140             | 0                 | 5/9/97               | 140             | 0                 |                      |                 |                   |   |
| MH B1          | MH B1-2             | 12/VCP                          | 5/8/97               | 205             | 0                 | 5/9/97               | 205             | 0                 |                      |                 |                   |   |
| MH B1-2        | lateral Bldg<br>400 | 6/VCP                           | 9/3/97               | 96              | 0                 |                      |                 |                   |                      |                 |                   |   |
| MH B4          | CB B4-1             | 10/VCP                          | 1/15/97              | 186             | 0                 | 4/7/97               | 186             | 0                 |                      |                 |                   |   |
| MH B4          | MH B6               | 25/VCP                          | 1/15/97              | 335             | 0                 | 4/7/97               | 335             | 0                 |                      |                 |                   |   |
| MH B7          | MH B6               | 31/VCP                          | 4/7/97               | 204             | 0                 | 4/7/97               | 204             | 0                 |                      |                 |                   |   |
| MH B8          | MH B7               | 30/VCP                          | 4/9/97               | 210             | 0                 | 4/18/97              | 210             | 0                 |                      |                 |                   |   |
| MH B8          | MH B9               | 36/Corr.                        | 4/17/97              | 365             | 0                 | 4/18/97              | 365             | 0                 |                      |                 |                   |   |
| MH B8          | CB B8-1             | 15/VCP                          | 9/3/97               | 145             | 0                 |                      |                 |                   |                      |                 |                   |   |
| MH E17         | CB E18              | 15/VCP                          | 2/3/97               | 60              | 15                | 5/6/97               | 75              | 0                 |                      |                 |                   | Not accessible for complete 1st line cleaning - obstruction |
| MH E2          | CB E3               | 15/Metal                        | 2/3/97               | 123             | 0                 | 4/7/97               | 123             | 0                 |                      |                 |                   |   |
| MH E2          | CB E13              | 36/Conc.                        | 2/5/97               | 265             | 0                 | 4/7/97               | 265             | 0                 |                      |                 |                   |   |
| MH E2          | CB E1               | 15/VCP                          | 4/7/97               | 106             | 0                 | 5/6/97               | 106             | 0                 |                      |                 |                   |   |
| MH E2-1        | MH E2               | 40/Conc.                        | 2/5/97               | 105             | 0                 | 5/1/97               | 105             | 0                 |                      |                 |                   |   |
| MH E2-1        | MH E2-2             | 36/RCP                          | 5/6/97               | 190             | 0                 | 5/7/97               | 190             | 0                 |                      |                 |                   |   |
| MH E2-2        | CB E2-4             | 15/RCP                          | 5/6/97               | 106             | 0                 | 5/7/97               | 106             | 0                 |                      |                 |                   |   |
| MH E2-2        | CB F1               | 36/RCP                          | 5/7/97               | 90              | 0                 | 5/7/97               | 90              | 0                 |                      |                 |                   |   |
| MH E4          | MH E5               | 15/Conc.                        | 2/3/97               | 44              | 0                 | 4/7/97               | 44              | 0                 |                      |                 |                   |   |
| MH E4          | lateral             | 15/Corr.                        | 1/30/97              | 40              | 80                | 4/7/97               | 40              | 80                |                      |                 |                   | Broken pipe   |

**TABLE B-1 (a)**  
**BASIN I STORM DRAIN CLEANING SUMMARY REPORT**

| From:<br>MH/CB | To : MH/CB          | Pipe Dia. (in)/<br>Type of Pipe | 1st Clean-up<br>Date | Cleaned<br>(ft) | Uncleaned<br>(ft) | 2nd Clean-up<br>Date | Cleaned<br>(ft) | Uncleaned<br>(ft) | 3rd Clean-up<br>Date | Cleaned<br>(ft) | Uncleaned<br>(ft) | Remarks   |
|----------------|---------------------|---------------------------------|----------------------|-----------------|-------------------|----------------------|-----------------|-------------------|----------------------|-----------------|-------------------|---|
| MH E5          | CB E7               | 4/VCP                           | 2/3/97               | 60              | 0                 | 5/2/97               | 60              | 0                 |                      |                 |                   |   |
| MH E5          | CB E6               | 12/Conc.                        | 2/3/97               | 20              | 0                 | 4/7/97               | 20              | 0                 |                      |                 |                   |   |
| MH F5          | CB F4               | 54/RCP                          | 5/9/97               | 420             | 0                 |                      |                 |                   |                      |                 |                   |   |
| MH F5          | MH F6               | 54/RCP                          | 5/12/97              | 425             | 0                 |                      |                 |                   |                      |                 |                   |   |
| MH G1          | MH G2               | 15/VCP                          | 1/21/97              | 400             | 0                 | 4/1/97               | 400             | 0                 |                      |                 |                   |   |
| MH G2          | lateral             | 8/VCP                           | 1/21/97              | 15              | 135               | 5/20/97              | 150             | 0                 |                      |                 |                   | Not accessible for complete 1st line cleaning - 90° elbow   |
| MH I1          | lateral             | 6/VCP                           | 2/10/97              | 32              | 68                | 5/1/97               | 32              | 68                |                      |                 |                   | Not accessible for complete line cleaning - obstruction     |
| MH I10         | lateral             | 12/VCP                          | 2/12/97              | 79              | 0                 | 6/17/97              | 79              | 0                 |                      |                 |                   |   |
| MH I10         | MH I11              | 15/VCP                          | 2/18/97              | 49              | 0                 | 5/5/97               | 49              | 0                 |                      |                 |                   |   |
| MH I11         | MH I12              | 15/VCP                          | 2/18/97              | 36              | 0                 | 5/5/97               | 36              | 0                 |                      |                 |                   |   |
| MH I10         | MH I9               | 15/VCP                          | 2/18/97              | 119             | 0                 | 3/26/97              | 119             | 0                 |                      |                 |                   |   |
| MH I11         | CB I11-1            | 8/VCP                           | 2/12/97              | 108             | 0                 | 5/1/97               | 108             | 0                 |                      |                 |                   |   |
| MH I13-1       | clean out           | 8/VCP                           | 2/12/97              | 171             | 0                 | 5/2/97               | 171             | 0                 |                      |                 |                   |   |
| MH I13-1       | roof leader         | 8/PVC                           | 2/12/97              | 15              | 165               | 3/27/97              | 170             | 0                 |                      |                 |                   | Not accessible for complete 1st line cleaning - obstruction |
| MH I13-1       | MH I13              | 8/PVC                           | 2/12/97              | 63              | 0                 | 3/27/97              | 47              | 0                 |                      |                 |                   |   |
| MH I2          | MH I1               | 15/VCP                          | 2/5/97               | 184             | 0                 | 3/25/97              | 184             | 0                 |                      |                 |                   |   |
| MH I2          | MH I3               | 18/VCP                          | 2/5/97               | 180             | 0                 | 3/25/97              | 180             | 0                 |                      |                 |                   |   |
| MH I3          | lateral Bldg<br>407 | 6/VCP                           | 2/6/97               | 91              | 9                 | 4/30/97              | 100             | 0                 |                      |                 |                   |   |
| MH I3          | lateral             | 6/VCP                           | 2/10/97              | 30              | 0                 | 5/7/97               | 30              | 0                 |                      |                 |                   |   |
| MH I4          | MH I3               | 21/VCP                          | 2/5/97               | 186             | 0                 | 3/25/97              | 186             | 0                 | 4/16/97              | 186             | 0                 |   |
| MH I5          | MH I4               | 24/VCP                          | 2/5/97               | 131             | 0                 | 3/25/97              | 131             | 0                 |                      |                 |                   |   |
| MH I7          | MH I5               | 24/VCP                          | 2/6/97               | 141             | 0                 | 3/25/97              | 141             | 0                 |                      |                 |                   |   |
| MH I8          | MH I7               | 24/VCP                          | 2/6/97               | 104             | 0                 | 3/25/97              | 104             | 0                 |                      |                 |                   |   |
| MH I8          | MH I9               | 21/VCP                          | 2/19/97              | 191             | 0                 | 3/26/97              | 191             | 0                 |                      |                 |                   |   |
| MH I8-1        | MH I8-2             | 12/VCP                          | 2/6/97               | 62              | 0                 | 3/25/97              | 62              | 0                 |                      |                 |                   |   |
| MH I8-1        | MH I8               | 15/VCP                          | 2/6/97               | 130             | 0                 | 3/25/97              | 130             | 0                 |                      |                 |                   |   |
| MH I8-2        | CB I8-5             | 6/PVC                           | 2/10/97              | 121             | 0                 | 5/1/97               | 121             | 0                 |                      |                 |                   |   |
| MH I9-3        | roof drain          | 6/PVC                           | 2/10/97              | 17              | 0                 |                      |                 |                   |                      |                 |                   |   |
| MH I9-3        | roof drain          | 6/PVC                           | 2/10/97              | 20              | 0                 |                      |                 |                   |                      |                 |                   |   |
| MH I9-3        | roof leader         | 8/PVC                           | 2/10/97              | 60              | 0                 | 6/17/97              | 47              | 13                |                      |                 |                   | Not accessible for complete 2nd line cleaning - broken      |
| MH I9-3        | CB I9-2             | 8/PVC                           | 2/10/97              | 20              | 0                 | 5/5/97               | 20              | 0                 |                      |                 |                   |   |
| MH J2          | MH I8               | 36/VCP                          | 2/20/97              | 324             | 0                 | 3/31/97              | 324             | 0                 |                      |                 |                   |   |
| MH L10         | 90 MH L7-1          | 6/Corr.                         | 5/7/97               | 135             | 0                 |                      |                 |                   |                      |                 |                   |   |
| MH L10         | CB L9               | 6/Corr.                         | 5/7/97               | 80              | 0                 | 5/15/97              | 80              | 0                 |                      |                 |                   |   |
| MH L10         | lateral Bldg<br>707 | 6/Corr.                         | 5/7/97               | 60              | 60                | 5/15/97              | 40              | 80                |                      |                 |                   | Not accessible for complete line cleaning - debris          |

**TABLE B-1 (a)**  
**BASIN I STORM DRAIN CLEANING SUMMARY REPORT**

5 of 5

| From:<br>MH/CB | To : MH/CB | Pipe Dia. (in)/<br>Type of Pipe | 1st Clean-up<br>Date | Cleaned<br>(ft) | Uncleaned<br>(ft) | 2nd Clean-up<br>Date | Cleaned<br>(ft) | Uncleaned<br>(ft) | 3rd Clean-up<br>Date | Cleaned<br>(ft) | Uncleaned<br>(ft) | Remarks   |
|----------------|------------|---------------------------------|----------------------|-----------------|-------------------|----------------------|-----------------|-------------------|----------------------|-----------------|-------------------|---|
| MH L7-1        | lateral    | 6/Corr.                         | 5/7/97               | 135             | 0                 | 6/17/97              | 100             | 35                |                      |                 |                   |   |
| MH L7-1        | 708        | 6                               | 5/7/97               | 24              | 0                 | 6/17/97              | 3               | 21                |                      |                 |                   | Not accessible for complete 2nd line cleaning - obstruction |
| MH L7-1        | 90 MH L10  | 8/Corr.                         | 5/7/97               | 125             | 0                 | 5/15/97              | 125             | 0                 |                      |                 |                   |   |
| MH P1          | MH B1      | 18/RCP                          | 5/5/97               | 470             | 0                 | 5/6/97               | 470             | 0                 |                      |                 |                   |   |
| Area 1-1       |            | 8                               | ---                  | 0               | 390               |                      |                 |                   |                      |                 |                   | Submerged lines   |
|                |            | 15                              | ---                  | 0               | 60                |                      |                 |                   |                      |                 |                   | Submerged lines   |
| Area 1-2       |            | 4                               | ---                  | 0               | 130               |                      |                 |                   |                      |                 |                   | Submerged lines   |
|                |            | 6                               | ---                  | 0               | 1790              |                      |                 |                   |                      |                 |                   | Submerged lines   |
|                |            | 8                               | ---                  | 0               | 1670              |                      |                 |                   |                      |                 |                   | Submerged lines   |
|                |            | 10                              | ---                  | 0               | 465               |                      |                 |                   |                      |                 |                   | Submerged lines   |
|                |            | 12                              | ---                  | 0               | 110               |                      |                 |                   |                      |                 |                   | Submerged lines   |
|                |            | 18                              | ---                  | 0               | 580               |                      |                 |                   |                      |                 |                   | Submerged lines   |
|                |            | 21                              | ---                  | 0               | 140               |                      |                 |                   |                      |                 |                   | Submerged lines   |
|                |            | 24                              | ---                  | 0               | 1340              |                      |                 |                   |                      |                 |                   | Submerged lines   |
|                |            | 30                              | ---                  | 0               | 615               |                      |                 |                   |                      |                 |                   | Submerged lines   |
|                |            | 42                              | ---                  | 0               | 800               |                      |                 |                   |                      |                 |                   | Submerged lines   |
|                |            | 48                              | ---                  | 0               | 2835              |                      |                 |                   |                      |                 |                   | Submerged lines   |
|                |            | 52                              | ---                  | 0               | 200               |                      |                 |                   |                      |                 |                   | Submerged lines   |
|                |            | 60                              | ---                  | 0               | 530               |                      |                 |                   |                      |                 |                   | Submerged lines   |

**TABLE B-2 (a)**  
**BASIN II STORM DRAIN LINE CLEANING SUMMARY LOG**

1 of 2

| From:<br>MH/CB       | To:<br>MH/CB | Pipe Dia. (in)/<br>Type of Pipe | 1st Clean-up<br>Date | Cleaned<br>(ft) | Uncleaned<br>(ft) | 2nd Clean-up<br>Date | Cleaned<br>(ft) | Uncleaned<br>(ft) | 3rd Clean-up<br>Date | Cleaned<br>(ft) | Uncleaned<br>(ft) | Remarks   |
|----------------------|--------------|---------------------------------|----------------------|-----------------|-------------------|----------------------|-----------------|-------------------|----------------------|-----------------|-------------------|---|
| CB A1-4              | CB A1-X      | 8/VCP                           | 1/2/97               | 39              | 0                 | 1/15/97              | 39              | 0                 |                      |                 |                   |   |
| CB A1-X              | MH A2        | 8                               | 1/2/97               | 60              | 0                 |                      |                 |                   |                      |                 |                   |   |
| CB A3-1              | CB A1-Y      | 6/VCP                           | 1/2/97               | 34              | 0                 |                      |                 |                   |                      |                 |                   |   |
| CB A3-1              | lateral      | 6                               | 1/2/97               | 15              | 0                 |                      |                 |                   |                      |                 |                   |   |
| CB A4-2              | CB A4-3      | 8/CIP                           | 1/6/97               | 112             | 0                 |                      |                 |                   |                      |                 |                   |   |
| CB A4-3              | GT A4-4      | 6/VCP                           | 1/8/97               | 10              | 60                |                      |                 |                   |                      |                 |                   | Not accessible for complete line cleaning - obstruction       |
| CB A5-3              | mainline     | 10                              | 1/24/97              | 36              | 0                 |                      |                 |                   |                      |                 |                   |   |
| CB A5-3              | lateral      | 4/VCP                           | 1/24/97              | 109             | 0                 | 1/30/92              | 109             | 0                 |                      |                 |                   |   |
| CB D2                | MH D1        | 8/VCP                           | 11/27/96             | 40              | 0                 | 12/18/96             | 40              | 0                 |                      |                 |                   |   |
| CB D3                | CB D5        | 8                               | 11/12/96             | 40              | 0                 |                      |                 |                   |                      |                 |                   |   |
| CB D3                | CB D4        | 8                               | 11/12/96             | 40              | 0                 |                      |                 |                   |                      |                 |                   |   |
| CB E1                | CB E2        | 12/VCP                          | 11/7/96              | 44              | 0                 | 1/8/97               | 44              | 0                 |                      |                 |                   |   |
| CB F2                | main Line    | 8                               | 12/3/96              | 51              | 0                 |                      |                 |                   |                      |                 |                   |   |
| CB F3                | main Line    | 8                               | 12/3/96              | 60              | 0                 |                      |                 |                   |                      |                 |                   |   |
| CB H1                | CB H2        | 15/VCP                          | 12/11/96             | 133             | 0                 |                      |                 |                   |                      |                 |                   |   |
| CB H1                | MH A9        | 18/VCP                          | 1/3/97               | 98              | 0                 |                      |                 |                   |                      |                 |                   |   |
| CB H2                | CB H3        | 12/VCP                          | 12/11/96             | 148             | 0                 |                      |                 |                   |                      |                 |                   |   |
| CB H3                | CB H4        | 10/VCP                          | 1/8/97               | 55              | 0                 | 1/15/97              | 55              | 0                 |                      |                 |                   |   |
| CB H3                | CB H5        | 10/VCP                          | 1/8/97               | 65              | 0                 |                      |                 |                   |                      |                 |                   |   |
| CB H6                | mainline     | 10/VCP                          | 1/6/97               | 89              | 41                |                      |                 |                   |                      |                 |                   | Not accessible for complete line cleaning - plastic substance |
| CB I1                | CB I2        | 15/VCP                          | 12/5/96              | 150             | 0                 | 12/31/96             | 150             | 0                 |                      |                 |                   |   |
| CB I1                | CB I5        | 12/VCP                          | 12/5/96              | 111             | 0                 | 12/31/96             | 111             | 0                 |                      |                 |                   |   |
| CB I2                | CB I3        | 12/VCP                          | 12/5/96              | 152             | 0                 | 12/31/96             | 152             | 0                 |                      |                 |                   |   |
| CB I3                | CB I4        | 12/VCP                          | 12/5/96              | 88              | 0                 | 12/31/96             | 88              | 0                 |                      |                 |                   |   |
| Diversion<br>Struct. | MH A6        | 33/VCP                          | 12/2/96              | 42              | 0                 | 12/19/96             | 42              | 0                 |                      |                 |                   |   |
| MH A1                | MH A1-Z      | 18/VCP                          | 11/18/96             | 40              | 0                 |                      |                 |                   |                      |                 |                   |   |
| MH A1                | MH A2        | 21/VCP                          | 11/18/96             | 60              | 0                 |                      |                 |                   |                      |                 |                   |   |
| MH A1                | lateral      | 12/VCP                          | 11/20/96             | 64              | 0                 | 1/14/97              | 64              | 0                 |                      |                 |                   |   |
| MH A1-1              | lateral      | 18/VCP                          | 11/6/96              | 252             | 0                 | 12/19/96             | 252             | 0                 | 1/6/97               | 252             | 0                 |   |
| MH A1-1              | MH A1        | 18/VCP                          | 11/20/96             | 34              | 0                 | 12/18/96             | 34              | 0                 |                      |                 |                   |   |
| MH A1-1              | lateral      | 12/VCP                          | 12/18/96             | 34              | 0                 | 1/6/97               | 22              | 12                |                      |                 |                   | Not accessible for complete 2nd line cleaning - broken        |
| MH A1-2              | MH A1-3      | 24/VCP                          | 11/18/96             | 301             | 0                 | 12/18/96             | 301             | 0                 | 12/30/96             | 301             | 0                 |   |
| MH A1-2              | MH A1-Z      | 24/VCP                          | 11/18/96             | 301             | 0                 | 12/18/96             | 301             | 0                 |                      |                 |                   |   |
| MH A1-Z              | lateral      | 15/VCP                          | 1/7/97               | 57              | 0                 |                      |                 |                   |                      |                 |                   |   |
| MH A1-Z              | lateral      | 10/VCP                          | 1/7/97               | 29              | 0                 |                      |                 |                   |                      |                 |                   |   |
| MH A1-Z              | lateral      | 4/VCP                           | 1/8/97               | 50              | 0                 |                      |                 |                   |                      |                 |                   |   |

**TABLE B-2 (a)**  
**BASIN II STORM DRAIN LINE CLEANING SUMMARY LOG**

2 of 2

| From:<br>MH/CB | To:<br>MH/CB         | Pipe Dia. (in)/<br>Type of Pipe | 1st Clean-up<br>Date | Cleaned<br>(ft) | Uncleaned<br>(ft) | 2nd Clean-up<br>Date | Cleaned<br>(ft) | Uncleaned<br>(ft) | 3rd Clean-up<br>Date | Cleaned<br>(ft) | Uncleaned<br>(ft) | Remarks   |
|----------------|----------------------|---------------------------------|----------------------|-----------------|-------------------|----------------------|-----------------|-------------------|----------------------|-----------------|-------------------|---|
| MH A3          | MH A2                | 15/VCP                          | 11/6/96              | 124             | 0                 | 12/18/96             | 124             | 0                 |                      |                 |                   |   |
| MH A3          | CB A3-1              | 8/VCP                           | 1/2/97               | 55              | 0                 |                      |                 |                   |                      |                 |                   |   |
| MH A3          | lateral              | 8/VCP                           | 1/2/97               | 25              | 0                 | 1/15/97              | 25              | 0                 |                      |                 |                   |   |
| MH A4          | MH A3                | 27/VCP                          | 11/6/96              | 65              | 0                 | 12/18/96             | 65              | 0                 |                      |                 |                   |   |
| MH A4          | CB A4-1              | 8/VCP                           | 11/6/96              | 22              | 0                 | 12/19/96             | 22              | 0                 |                      |                 |                   |   |
| MH A4          | CB A4-2              | 8/VCP                           | 11/6/96              | 26              | 0                 | 12/19/96             | 26              | 0                 |                      |                 |                   |   |
| MH A4          | lateral              | 6/VCP                           | 11/18/96             | 0               | 0                 |                      |                 |                   |                      |                 |                   |   |
| MH A5          | MH A4                | 27/VCP                          | 11/6/96              | 283             | 0                 | 1/6/97               | 280             | 0                 |                      |                 |                   |   |
| MH A5          | MH A5-1              | 27/VCP                          | 11/27/96             | 99              | 0                 |                      |                 |                   |                      |                 |                   |   |
| MH A5          | CB E1                | 12/VCP                          | 11/7/96              | 110             | 0                 |                      |                 |                   |                      |                 |                   |   |
| MH A5-1        | CB A5-0              | 8/VCP                           | 11/7/96              | 10              | 0                 |                      |                 |                   |                      |                 |                   |   |
| MH A5-1        | MH A5-2              | 24/VCP                          | 11/27/96             | 70              | 0                 |                      |                 |                   |                      |                 |                   |   |
| MH A5-2        | MH C3                | 15/VCP                          | 11/7/96              | 230             | 0                 | 11/27/96             | 230             | 0                 |                      |                 |                   |   |
| MH A5-2        | MH A5-4              | 18/VCP                          | 11/7/96              | 238             | 0                 | 11/26/96             | 238             | 0                 | 1/6/97               | 238             | 0                 |   |
| MH A5-4        | lateral              | 18/VCP                          | 11/6/96              | 95              | 0                 | 12/19/96             | 95              | 0                 |                      |                 |                   |   |
| MH A5-4        | CB A5-5              | 15/VCP                          | 11/6/96              | 108             | 0                 | 11/26/96             | 108             | 0                 |                      |                 |                   |   |
| MH A6          | MH A5                | 30/VCP                          | 11/27/96             | 273             | 0                 | 11/28/96             | 273             | 0                 |                      |                 |                   |   |
| MH A6          | MH D1                | 18/VCP                          | 11/27/96             | 97              | 0                 | 12/2/96              | 97              | 0                 |                      |                 |                   |   |
| MH A7          | CB F1                | 10/VCP                          | 12/3/96              | 338             | 0                 | 12/18/96             | 338             | 0                 |                      |                 |                   |   |
| MH A7          | lateral              | 33/VCP                          | 12/4/96              | 82              | 16                | 1/3/97               | 98              | 0                 |                      |                 |                   | Not accessible for complete 1st line cleaning - cave-in |
| MH A7          | CB A7-1              | 12/VCP                          | 1/7/97               | 30              | 0                 |                      |                 |                   |                      |                 |                   |   |
| MH A7          | Diversion<br>Struct. | 33/VCP                          | 12/3/96              | 215             | 0                 | 12/19/96             | 215             | 0                 |                      |                 |                   |   |
| MH A8          | CB I1                | 24/VCP                          | 12/5/96              | 85              | 0                 | 1/3/97               | 85              | 0                 |                      |                 |                   |   |
| MH A8          | MH A7                | 36/VCP                          | 12/27/96             | 177             | 0                 | 1/3/97               | 177             | 0                 |                      |                 |                   |   |
| MH A9          | MH A8                | 36/VCP                          | 12/31/96             | 217             | 0                 | 1/3/97               | 217             | 0                 |                      |                 |                   |   |
| MH C3          | CB C6                | 15/VCP                          | 11/6/96              | 230             | 0                 | 11/26/96             | 230             | 0                 | 1/7/97               | 230             | 0                 |   |
| MH C3          | lateral              | 6/VCP                           | 11/6/96              | 61              | 0                 | 11/26/96             | 61              | 0                 |                      |                 |                   |   |
| MH C3          | CB C2                | 8/VCP                           | 11/6/96              | 10              | 0                 |                      |                 |                   |                      |                 |                   |   |
| MH D1          | CB D3                | 8/VCP                           | 11/12/96             | 143             | 0                 | 12/18/96             | 143             | 0                 | 1/6/97               | 143             | 0                 |   |
| MH D1          | MH D7                | 15/VCP                          | 12/2/96              | 186             | 0                 | 12/2/96              | 186             | 0                 | 12/18/96             | 186             | 0                 |   |
| MH D7          | CB D8                | 12/VCP                          | 11/12/96             | 76              | 0                 | 12/18/96             | 76              | 0                 |                      |                 |                   |   |
| MH D7          | lateral              | 12/VCP                          | 11/27/96             | 130             | 0                 | 12/2/96              | 130             | 0                 |                      |                 |                   |   |
| MH D7          | CB D10               | 8/VCP                           | 11/27/96             | 30              | 0                 | 12/18/96             | 30              | 0                 |                      |                 |                   |   |
| Area 2-1       |                      | 4                               | ---                  | 0               | 110               |                      |                 |                   |                      |                 |                   | Not accessible for cleaning - plugged                   |
|                |                      | 6                               | ---                  | 0               | 75                |                      |                 |                   |                      |                 |                   | Not accessible for cleaning - plugged                   |
|                |                      | 10                              | ---                  | 0               | 100               |                      |                 |                   |                      |                 |                   | Not accessible for cleaning - plugged                   |
|                |                      | 12                              | ---                  | 0               | 140               |                      |                 |                   |                      |                 |                   | Not accessible for cleaning - plugged                   |



**TABLE B-3 (a)**  
**BASIN III STORM DRAIN LINE CLEANING SUMMARY LOG**

1 of 1

| From:<br>MH/CB | To:<br>MH/CB        | Pipe Dia. (in)/<br>Type of Pipe | 1st Clean-up<br>Date | Cleaned<br>(ft) | Uncleaned<br>(ft) | 2nd Clean-up<br>Date | Cleaned<br>(ft) | Uncleaned<br>(ft) | 3rd Clean-up<br>Date | Cleaned<br>(ft) | Uncleaned<br>(ft) | Remarks        |
|----------------|---------------------|---------------------------------|----------------------|-----------------|-------------------|----------------------|-----------------|-------------------|----------------------|-----------------|-------------------|----------------|
| CB A2          | CB A1               | 10/VCP                          | 12/12/96             | 131             | 0                 | 1/9/97               | 131             | 0                 |                      |                 |                   |                |
| CB A2          | Sump                | 4/CI                            | 2/11/97              | 16              | 0                 |                      |                 |                   |                      |                 |                   |                |
| CB B2          | CB B1               | 8/VCP                           | 1/9/97               | 120             | 0                 | 2/5/97               | 120             | 0                 |                      |                 |                   |                |
| MH A3          | CB A2               | 10/VCP                          | 12/12/96             | 63              | 0                 | 1/9/97               | 63              | 0                 | 2/11/97              | 63              | 0                 |                |
| MH A3          | CB A3               | 10/VCP                          | 12/12/96             | 10              | 0                 |                      |                 |                   |                      |                 |                   |                |
| MH A3          | lateral Bldg<br>123 | 4/VCP                           | 2/11/97              | 65              | 0                 |                      |                 |                   |                      |                 |                   |                |
| MH A4          | MH A3               | 18/VCP                          | 12/12/96             | 210             | 0                 | 1/9/97               | 210             | 0                 |                      |                 |                   |                |
| MH A4          | CB A4-1             | 12/VCP                          | 12/12/96             | 264             | 0                 | 1/9/97               | 264             | 0                 |                      |                 |                   |                |
| Area 3-1       |                     | 4                               | ---                  | 0               | 215               |                      |                 |                   |                      |                 |                   | Submerged Pipe |
|                |                     | 6                               | ---                  | 0               | 90                |                      |                 |                   |                      |                 |                   | Submerged Pipe |
|                |                     | 8                               | ---                  | 0               | 205               |                      |                 |                   |                      |                 |                   | Submerged Pipe |
|                |                     | 10                              | ---                  | 0               | 55                |                      |                 |                   |                      |                 |                   | Submerged Pipe |
|                |                     | 14                              | ---                  | 0               | 125               |                      |                 |                   |                      |                 |                   | Submerged Pipe |
|                |                     | 24                              | ---                  | 0               | 185               |                      |                 |                   |                      |                 |                   | Submerged Pipe |

**TABLE B-4 (a)**  
**BASIN IV STORM DRAIN LINE CLEANING SUMMARY LOG**

1 of 2

| From:<br>MH/CB | To:<br>MH/CB         | Pipe Dia. (in)/<br>Type of Pipe | 1st Clean-up<br>Date | Cleaned<br>(ft) | Uncleaned<br>(ft) | 2nd Clean-up<br>Date | Cleaned<br>(ft) | Uncleaned<br>(ft) | 3rd Clean-up<br>Date | Cleaned<br>(ft) | Uncleaned<br>(ft) | Remarks      |
|----------------|----------------------|---------------------------------|----------------------|-----------------|-------------------|----------------------|-----------------|-------------------|----------------------|-----------------|-------------------|--------------|
| CB B5-3        | CB B5-4              | 10 / VCP                        | 2/18/97              | 227             | 0                 | 2/19/97              | 227             | 0                 |                      |                 |                   |              |
| CB B6-3        | MH B6-4              | 6 / VCP                         | 10/17/96             | 55              | 0                 |                      |                 |                   |                      |                 |                   |              |
| CB B6-6        | lateral              | 6 / CMP                         | 10/17/96             | 60              | 0                 |                      |                 |                   |                      |                 |                   |              |
| CB B7-1        | CB B7-3              | 8 / VCP                         | 10/23/96             | 53              | 0                 | 1/8/97               | 53              | 0                 |                      |                 |                   |              |
| CB B7-2        | CB B7-4              | 10 / VCP                        | 10/23/96             | 44              | 0                 | 1/8/97               | 44              | 0                 | 2/3/97               | 44              | 0                 |              |
| CB B7-2        | CB B7-1              | 10 / VCP                        | 10/23/96             | 115             | 0                 | 1/8/97               | 115             | 0                 | 2/3/97               | 115             | 0                 |              |
| CB B7-5        | CB B7-6              | 12 / VCP                        | 10/22/96             | 113             | 0                 | 1/8/97               | 113             | 0                 | 2/3/97               | 113             | 0                 |              |
| CB B7-7        | CB B7-6              | 8 / VCP                         | 10/22/96             | 147             | 0                 | 1/8/97               | 147             | 0                 | 2/3/97               | 147             | 0                 |              |
| CB B7-8        | Wye                  | 8 / VCP                         | 1/8/97               | 12              | 0                 | 2/11/97              | 20              | 0                 |                      |                 |                   |              |
| CB B8-5        | CB B8-6              | 8 / VCP                         | 11/20/96             | 120             | 0                 | 1/29/97              | 120             | 0                 |                      |                 |                   |              |
| CB B8-5        | MH B8-4              | 8 / VCP                         | 11/20/96             | 140             | 0                 | 1/29/97              | 140             | 0                 |                      |                 |                   |              |
| CB D2          | CB D1                | 6 /VCP                          | 1/30/97              | 100             | 0                 | 2/12/97              | 100             | 0                 |                      |                 |                   |              |
| CB E4          | CB E3                | 8                               | 12/2/96              | 182             | 0                 |                      |                 |                   |                      |                 |                   |              |
| CB E5          | CB E4                | 10/VCP                          | 12/2/96              | 145             | 0                 | 1/13/97              | 145             | 0                 | 2/3/97               | 145             | 0                 |              |
| CB F3          | lateral              | 4 / VCP                         | 1/30/97              | 72              | 0                 | 2/12/1997; 4K<br>psi | 72              | 0                 |                      |                 |                   |              |
| MH B5          | MH B4                | 27/VCP                          | ---                  | 0               | 60                |                      |                 |                   |                      |                 |                   | Damaged pipe |
| MH B5-1        | MH B5                | 27/VCP                          | 11/20/96             | 136             | 0                 | 1/7/97               | 136             | 0                 |                      |                 |                   |              |
| MH B6          | CB B6-1              | 12/VCP                          | 11/29/96             | 200             | 0                 | 1/7/97               | 200             | 0                 |                      |                 |                   |              |
| MH B6          | CB B6-7              | 12/VCP                          | 11/29/96             | 125             | 0                 | 1/7/97               | 125             | 0                 |                      |                 |                   |              |
| MH B6          | MH B5-1              | 36/VCP                          | 11/21/96             | 204             | 0                 | 1/7/97               | 204             | 0                 |                      |                 |                   |              |
| MH B6          | MH B6-2              | 8 / VCP                         | 10/17/96             | 165             | 0                 | 1/7/97               | 165             | 0                 |                      |                 |                   |              |
| MH B6-3        | MH B6-5              | 6 / VCP                         | 10/17/96             | 61              | 0                 | 1/7/97               | 61              | 0                 | 2/3/97               | 61              | 0                 |              |
| MH B6-6        | lateral              | 6 / CI                          | 10/17/96             | 60              | 0                 |                      |                 |                   |                      |                 |                   |              |
| MH B6-6        | CB B6-3              | 8 / VCP                         | 10/17/96             | 56              | 0                 | 2/11/97              | 56              | 0                 |                      |                 |                   |              |
| MH B6-6        | MH B6-2              | 8 / VCP                         | 10/17/96             | 5               | 0                 | 2/11/97              | 5               | 0                 |                      |                 |                   |              |
| MH B7          | lateral/<br>Bldg 130 | 6 / VCP                         | 10/17/96             | 20              | 0                 |                      |                 |                   |                      |                 |                   |              |
| MH B7          | MH B6                | 33/VCP                          | 11/25/96             | 237             | 0                 | 1/7/97               | 237             | 0                 |                      |                 |                   |              |
| MH B7          | MH B8                | 33/VCP                          | 11/26/96             | 134             | 0                 | 1/8/97               | 134             | 0                 |                      |                 |                   |              |
| MH B7          | CB B7-5              | 15 / VCP                        | 10/22/96             | 144             | 0                 | 1/8/97               | 144             | 0                 | 2/3/97               | 144             | 0                 |              |
| MH B7          | CB B7-1              | 12 / VCP                        | 10/23/96             | 107             | 0                 | 1/8/97               | 107             | 0                 | 2/3/97               | 107             | 0                 |              |

**TABLE B-4 (a)**  
**BASIN IV STORM DRAIN LINE CLEANING SUMMARY LOG**

2 of 2

| From:<br>MH/CB | To:<br>MH/CB | Pipe Dia. (in)/<br>Type of Pipe | 1st Clean-up<br>Date | Cleaned<br>(ft) | Uncleaned<br>(ft) | 2nd Clean-up<br>Date | Cleaned<br>(ft) | Uncleaned<br>(ft) | 3rd Clean-up<br>Date | Cleaned<br>(ft) | Uncleaned<br>(ft) | Remarks                                    |
|----------------|--------------|---------------------------------|----------------------|-----------------|-------------------|----------------------|-----------------|-------------------|----------------------|-----------------|-------------------|--|
| MH B8          | MH B9        | 33/VCP                          | 11/26/96             | 50              | 0                 | 1/8/97               | 50              | 0                 |                      |                 |                   |  |
| MH B8          | CB B8-1      | 18 / VCP                        | 2/21/97              | 107             | 0                 | 2/21/97              | 107             | 0                 |                      |                 |                   |  |
| MH B8-2        | CB B8-1      | 15                              | 11/20/96             | 270             | 0                 |                      |                 |                   |                      |                 |                   |  |
| MH B8-3        | MH B8-4      | 8 / VCP                         | 11/20/96             | 88              | 0                 | 1/29/97              | 88              | 0                 | 2/19/97              | 88              | 0                 |  |
| MH B8-3        | MH B8-2      | 12 / VCP                        | 1/29/97              | 80              | 0                 | 2/19/1997; 4K<br>psi | 80              | 0                 |                      |                 |                   |  |
| MH B8-8        | Sump         | 6 / CMP                         | 1/29/97              | 88              | 0                 | 2/19/97              | 88              | 0                 |                      |                 |                   |  |
| MH B8-8        | MH B8-2      | 10 / VCP                        | 1/30/97              | 296             | 0                 | 2/19/1997; 4K<br>psi | 296             | 0                 |                      |                 |                   |  |
| MH B5-5        | Mainline     | 12 / VCP                        | 5/20/97              | 20              | 0                 |                      |                 |                   |                      |                 |                   | Line was plugged after it had been cleaned |
| AREA 4-1       |              | 12                              | ---                  | 0               | 50                |                      |                 |                   |                      |                 |                   | Damaged pipe                               |

**TABLE B-5 (a)**  
**BASIN V STORM DRAIN LINE CLEANING SUMMARY LOG**

| From :<br>MH/CB | To :<br>MH/CB       | Pipe Dia. (in)/<br>Type of Pipe | 1st Clean-up<br>Date | Cleaned<br>(ft) | Uncleaned<br>(ft) | 2nd Clean-up<br>Date | Cleaned<br>(ft) | Uncleaned<br>(ft) | 3rd Clean-up<br>Date | Cleaned<br>(ft) | Uncleaned<br>(ft) | Remarks   |
|-----------------|---------------------|---------------------------------|----------------------|-----------------|-------------------|----------------------|-----------------|-------------------|----------------------|-----------------|-------------------|---|
| CB A3           | CB A4               | 8/VCP                           | 2/10/97              | 43              | 0                 | 3/19/97              | 43              | 0                 |                      |                 |                   |   |
| CB A6           | ST A6-X             | 4/CI                            | 2/11/97              | 27              | 0                 | 4/15/97              | 27              | 0                 |                      |                 |                   |   |
| CB A6           | mainline            | 6                               | 2/11/97              | 3               | 0                 |                      |                 |                   |                      |                 |                   |   |
| CB A7           | lateral Bldg<br>211 | 4/CI                            | 5/9/97               | 30              | 0                 |                      |                 |                   |                      |                 |                   |   |
| CB B1           | CB B1-2             | 8/VCP                           | 3/10/97              | 85              | 0                 | 3/31/97              | 85              | 0                 | 4/1/97               | 85              | 0                 |   |
| CB B1           | CB B2               | 30/VCP                          | 3/11/97              | 90              | 0                 | 3/18/97              | 90              | 0                 |                      |                 |                   |   |
| CB B1           | lateral             | 6/VCP                           | 3/27/97              | 25              | 0                 | 4/4/97               | 25              | 0                 |                      |                 |                   |   |
| CB B1           | lateral             | 8/VCP                           | 3/27/97              | 0               | 0                 |                      |                 |                   |                      |                 |                   |   |
| CB B1-1         | CB B1               | 10/VCP                          | 3/10/97              | 83              | 0                 | 4/2/97               | 83              | 0                 | 4/4/97               | 83              | 0                 |   |
| CB B1-2         | CB G8               | 8/VCP                           | 3/27/97              | 80              | 0                 | 4/1/97               | 80              | 0                 |                      |                 |                   |   |
| CB B1-2         | lateral Bldg<br>226 | 6/VCP                           | 3/27/97              | 1               | 0                 |                      |                 |                   |                      |                 |                   |   |
| CB B10          | CB B10-5            | 10/VCP                          | 2/12/97              | 147             | 0                 | 3/5/97; 4K psi       | 147             | 0                 | 4/4/97<br>4/11/97    | 147<br>147      | 0<br>0            |   |
| CB B10          | CB B10-2            | 10/VCP                          | 2/12/97              | 115             | 0                 | 3/5/97; 4K psi       | 115             | 0                 | 4/11/97              | 115             | 0                 |   |
| CB B10-1        | lateral             | 4/VCP                           | 4/9/97 4K psi        | 45              | 0                 |                      |                 |                   |                      |                 |                   |   |
| CB B10-2        | lateral             | 8/VCP                           | 2/12/97              | 15              | 0                 |                      |                 |                   |                      |                 |                   |   |
| CB B10-4        | CB B10-2            | 10/VCP                          | 2/12/97              | 19              | 0                 | 3/5/97; 4K psi       | 19              | 0                 |                      |                 |                   |   |
| CB B10-6        | CB B10-7            | 6/VCP                           | 2/12/97              | 103             | 0                 | 3/5/97; 4K psi       | 103             | 0                 |                      |                 |                   |   |
| CB B10-6        | CB B10-5            | 8VCP                            | 2/12/97              | 41              | 0                 | 3/5/97; 4K psi       | 41              | 0                 |                      |                 |                   |   |
| CB B3           | lateral             | 12/VCP                          | 3/12/97              | 40              | 40                | 3/17/97              | 40              | 40                |                      |                 |                   | Not accessible for complete line cleaning - collapsed   |
| CB B3           | CB B5               | 27/VCP                          | 3/12/97              | 235             | 0                 | 3/13/97              | 235             | 0                 | 4/11/97              | 235             | 0                 |   |
| CB B3           | CB B2               | 27/VCP                          | 3/12/97              | 20              | 0                 | 3/18/97              | 20              | 0                 |                      |                 |                   |   |
| CB B3-1         | CB B3               | 10/VCP                          | 3/12/97              | 111             | 0                 | 3/17/97              | 111             | 0                 |                      |                 |                   |   |
| CB B3-2         | CB B3-1             | 6/CI                            | 3/13/97              | 40              | 0                 | 3/17/97              | 40              | 0                 | 4/14/97              | 40              | 0                 |   |
| CB B5           | MH B5-1             | 10/VCP                          | 3/26/97              | 91              | 0                 | 3/31/97              | 91              | 0                 | 4/4/97               | 91              | 0                 |   |
| CB B5           | CB B7               | 30/VCP                          | 3/10/97              | 187             | 0                 | 3/19/97              | 187             | 0                 | 3/25/97              | 187             | 0                 |   |
| CB B5-1         | lateral             | 6/VCP                           | 3/26/97              | 15              | 50                | 4/4/97               | 65              | 0                 |                      |                 |                   | Not accessible for complete 1st line cleaning - damaged |
| CB B6           | CB B6-1             | 18/VCP                          | 3/5/97               | 75              | 0                 |                      |                 |                   |                      |                 |                   |   |
| CB B6           | CB B5               | 18/VCP                          | 3/10/97              | 85              | 0                 | 3/26/97              | 85              | 0                 |                      |                 |                   |   |
| CB B6-1         | CB B6-3             | 15/VCP                          | 3/10/97              | 115             | 0                 | 4/1/97               | 115             | 0                 |                      |                 |                   |   |
| CB B6-1         | CB B6-2             | 15/VCP                          | 3/10/97              | 30              | 0                 | 4/1/97               | 30              | 0                 |                      |                 |                   |   |

**TABLE B-5 (a)**  
**BASIN V STORM DRAIN LINE CLEANING SUMMARY LOG**

| From :<br>MH/CB | To :<br>MH/CB       | Pipe Dia. (in)/<br>Type of Pipe | 1st Clean-up<br>Date | Cleaned<br>(ft) | Uncleaned<br>(ft) | 2nd Clean-up<br>Date | Cleaned<br>(ft) | Uncleaned<br>(ft) | 3rd Clean-up<br>Date | Cleaned<br>(ft) | Uncleaned<br>(ft) | Remarks   |
|-----------------|---------------------|---------------------------------|----------------------|-----------------|-------------------|----------------------|-----------------|-------------------|----------------------|-----------------|-------------------|---|
| CB B6-11        | CB B6-8             | 12/VCP                          | 3/4/97               | 155             | 0                 | 3/6/97; 4K psi       | 155             | 0                 |                      |                 |                   |   |
| CB B6-13        | CB B6-11            | 8/CI                            | 3/4/97               | 257             | 0                 | 3/5/97; 4K psi       | 257             | 0                 | 4/11/97              | 257             | 0                 |   |
| CB B6-14        | CB B6               | 15/VCP                          | 3/5/97               | 90              | 0                 | 3/25/97              | 90              | 0                 | 3/25/97              | 90              | 0                 |   |
| CB B6-14        | CB B6-2             | 15/VCP                          | 3/6/97               | 93              | 0                 | 3/25/97              | 93              | 0                 |                      |                 |                   |   |
| CB B6-3         | lateral             | 8                               | 2/11/97              | 3               | 0                 |                      |                 |                   |                      |                 |                   |   |
| CB B6-4         | lateral             | 8/VCP                           | 2/11/97              | 10              | 0                 | 4/2/97               | 10              | 0                 |                      |                 |                   |   |
| CB B6-4         | CB B6-3             | 15/VCP                          | 2/11/97              | 67              | 0                 | 4/2/97               | 67              | 0                 |                      |                 |                   |   |
| CB B6-8         | CB B6-9             | 15/VCP                          | 3/4/97               | 205             | 0                 | 3/26/97              | 205             | 0                 |                      |                 |                   |   |
| CB B6-9         | lateral             | 4/VCP                           | 2/26/97              | 25              | 65                |                      |                 |                   |                      |                 |                   | Not accessible for complete line cleaning - obstruction     |
| CB B6-Y         | CB B6-2             | 10/VCP                          | 2/11/97              | 50              | 0                 | 4/2/97               | 50              | 0                 |                      |                 |                   |   |
| CB B6-Y         | lateral             | 6/VCP                           | 3/10/97              | 80              | 0                 | 4/2/97               | 80              | 0                 |                      |                 |                   |   |
| CB B6-Y         | lateral             | 10/VCP                          | 3/10/97              | 80              | 0                 | 4/2/97               | 80              | 0                 |                      |                 |                   |   |
| CB B7-1         | CB B7               | 10/VCP                          | 3/27/97              | 38              | 0                 | 4/4/97               | 38              | 0                 |                      |                 |                   |   |
| CB B7-1         | lateral             | 10/VCP                          | 3/27/97              | 62              | 0                 | 4/4/97               | 45              | 17                |                      |                 |                   | Not accessible for complete 2nd line cleaning - debris      |
| CB B8           | MH B7               | 12/VCP                          | 2/25/97              | 228             | 0                 | 3/25/97              | 228             | 0                 | 3/25/97              | 228             | 0                 |   |
| CB B8-1         | CB B8-2             | 10/VCP                          | 2/24/97              | 112             | 0                 | 3/26/97              | 112             | 0                 |                      |                 |                   |   |
| CB B8-1         | lateral             | 8/VCP                           | 2/24/97              | 41              | 0                 | 3/26/97              | 41              | 0                 |                      |                 |                   |   |
| CB B8-1         | CB B8               | 10/VCP                          | 2/25/97              | 28              | 0                 | 3/6/97; 4K psi       | 28              | 0                 | 3/27/97              | 28              | 0                 |   |
| CB B9           | CB B10              | 12/VCP                          | 2/24/97              | 250             | 0                 | 3/6/97; 4K psi       | 250             | 0                 | 4/17/97              | 250             | 0                 |   |
| CB B9           | CB B8               | 12/VCP                          | 2/25/97              | 239             | 0                 | 3/6/97; 4K psi       | 239             | 0                 | 4/4/97               | 239             | 0                 |   |
| CB B9           | lateral             | 8                               | 3/6/97               | 0               | 0                 |                      |                 |                   |                      |                 |                   |   |
| CB B9-1         | CB B9               | 10/VCP                          | 2/24/97              | 33              | 0                 | 3/13/97; 4K psi      | 33              | 0                 |                      |                 |                   |   |
| CB B9-1         | CB B9-2             | 10/VCP                          | 2/24/97              | 102             | 0                 | 3/13/97              | 102             | 0                 | 4/4/97               | 102             | 0                 |   |
| CB B9-2         | CB B9-3             | 10/VCP                          | 2/24/97              | 17              | 0                 | 3/13/97              | 17              | 0                 |                      |                 |                   |   |
| CB B9-3         | lateral             | 4                               | 2/24/97              | 0               | 170               |                      |                 |                   |                      |                 |                   | Collapsed line  |
| CB B9-3         | lateral             | 6/VCP                           | 3/26/97              | 140             | 0                 |                      |                 |                   |                      |                 |                   |   |
| CB C2           | CB C3               | 8/VCP                           | 2/27/97              | 40              | 99                | 3/4/97; 4K psi       | 139             | 0                 |                      |                 |                   | Not accessible for complete 1st line cleaning - obstruction |
| CB C2           | lateral Bldg<br>206 | 8/VCP                           | 3/4/97               | 110             | 0                 |                      |                 |                   |                      |                 |                   |   |
| CB D1           | CB D1-3             | 10/VCP                          | 3/4/97               | 84              | 0                 | 4/1/97               | 84              | 0                 |                      |                 |                   |   |
| CB D1-1         | CB D1-2             | 15/VCP                          | 2/25/97              | 169             | 0                 | 3/13/97              | 169             | 0                 | 4/4/97               | 169             | 0                 |   |
| CB D1-1         | CB D1               | 12/VCP                          | 2/26/97              | 67              | 0                 | 3/13/97              | 67              | 0                 |                      |                 |                   |   |
| CB D1-2         | lateral             | 8/VCP                           | 2/25/97              | 36              | 160               | 3/13/97              | 36              | 160               | 3/26/97              | 36              | 160               | Not accessible for complete line cleaning - bend            |
| CB D2           | CB D2-1             | 10/VCP                          | 2/26/97              | 29              | 0                 | 3/24/97              | 29              | 0                 | 4/11/97              | 29              | 0                 |   |
| CB D2           | CB D1               | 15/VCP                          | 2/26/97              | 100             | 0                 | 3/24/97              | 100             | 0                 | 4/4/97               | 100             | 0                 |   |

**TABLE B-5 (a)**  
**BASIN V STORM DRAIN LINE CLEANING SUMMARY LOG**

| From :<br>MH/CB | To :<br>MH/CB       | Pipe Dia. (in)/<br>Type of Pipe | 1st Clean-up<br>Date | Cleaned<br>(ft) | Uncleaned<br>(ft) | 2nd Clean-up<br>Date | Cleaned<br>(ft) | Uncleaned<br>(ft) | 3rd Clean-up<br>Date | Cleaned<br>(ft) | Uncleaned<br>(ft) | Remarks   |
|-----------------|---------------------|---------------------------------|----------------------|-----------------|-------------------|----------------------|-----------------|-------------------|----------------------|-----------------|-------------------|---|
| CB D3-1         | lateral             | 4/VCP                           | 2/26/97              | 55              | 0                 | 4/15/97              | 55              | 0                 |                      |                 |                   |   |
| CB D5           | lateral             | 4/VCP                           | 2/26/97              | 166             | 0                 |                      |                 |                   |                      |                 |                   |   |
| CB D5           | mainline            | 10/VCP                          | 2/26/97              | 30              | 0                 | 4/1/97               | 30              | 0                 |                      |                 |                   |   |
| CB D6           | mainline            | 10/VCP                          | 4/8/97               | 30              | 0                 | 4/9/97 4K psi        | 30              | 0                 |                      |                 |                   |   |
| CB E4-2         | lateral Bldg<br>219 | 4/CI                            | 4/9/97 4K psi        | 38              | 0                 |                      |                 |                   |                      |                 |                   |   |
| CB E4-2         | lateral             | 4/ABS                           | 4/9/97 4K psi        | 60              | 0                 |                      |                 |                   |                      |                 |                   |   |
| CB E6           | mainline            | 8/VCP                           | 4/8/97               | 32              | 0                 | 4/8/97 4K psi        | 26              | 6                 |                      |                 |                   | Not accessible for complete 2nd line cleaning - bend    |
| CB F2           | CB F2-2             | 8/CIP                           | 3/3/97               | 148             | 0                 | 3/5/97; 4K psi       | 148             | 0                 | 4/4/97               | 148             | 0                 |   |
| CB F2           | CB F2-1             | 8/VCP                           | 3/4/97               | 148             | 0                 | 3/5/97; 4K psi       | 148             | 0                 |                      |                 |                   |   |
| CB G1           | lateral Bldg<br>253 | 10/VCP                          | 3/18/97              | 26              | 0                 | 3/31/97              | 26              | 0                 |                      |                 |                   |   |
| CB G1           | lateral Bldg<br>253 | 10/VCP                          | 3/18/97              | 28              | 0                 | 3/31/97              | 28              | 0                 | 4/3/97               | 28              | 0                 |   |
| CB G2           | CB G1               | 10/VCP                          | 3/5/97               | 94              | 0                 | 3/31/97              | 94              | 0                 |                      |                 |                   |   |
| CB G2           | 253                 | 18/VCP                          | 3/18/97              | 57              | 0                 | 3/31/97              | 46              | 11                |                      |                 |                   | Not accessible for complete 2nd line cleaning - crushed |
| CB G2           | lateral             | 8/VCP                           | 3/18/97              | 27              | 0                 | 3/31/97              | 27              | 0                 |                      |                 |                   |   |
| CB G2           | CB G3               | 18/VCP                          | 3/27/97              | 90              | 0                 | 4/1/97               | 90              | 0                 | 4/3/97               | 90              | 0                 |   |
| CB H2           | CB H2-1             | 10/VCP                          | 3/27/97              | 44              | 0                 | 4/1/97               | 44              | 0                 |                      |                 |                   |   |
| CB H2           | CB H1               | 10/VCP                          | 3/27/97              | 150             | 0                 | 4/1/97               | 150             | 0                 |                      |                 |                   |   |
| CB H2-2         | CB H2               | 10/VCP                          | 3/25/97              | 100             | 0                 | 3/27/97              | 100             | 0                 | 4/1/97               | 100             | 0                 |   |
| CB I1           | CB I1-1             | 10/VCP                          | 3/12/97              | 97              | 0                 | 3/31/97              | 97              | 0                 |                      |                 |                   |   |
| CB I1           | CB B3               | 12/VCP                          | 3/13/97              | 348             | 0                 | 3/13/97              | 348             | 0                 |                      |                 |                   |   |
| CB I2           | CB I1               | 10/VCP                          | 3/27/97              | 200             | 0                 | 3/31/97              | 200             | 0                 |                      |                 |                   |   |
| MH A1           | CB A3               | 15/VCP                          | 2/10/97              | 145             | 0                 | 3/19/97              | 145             | 0                 |                      |                 |                   |   |
| MH A1           | MH A5               | 15/VCP                          | 2/10/97              | 180             | 0                 | 3/24/97              | 180             | 0                 | 4/14/97              | 180             | 0                 |   |
| MH A1           | CB A2               | 8/VCP                           | 2/10/97              | 18              | 0                 | 3/19/97              | 18              | 0                 |                      |                 |                   |   |
| MH A1           | Div. Struct.<br>"A" | 15/VCP                          | 2/10/97              | 35              | 0                 | 4/2/97               | 35              | 0                 |                      |                 |                   |   |
| MH A1-2         | Div. Struct.<br>"A" | 15/VCP                          | 4/8/97               | 32              | 0                 | 4/9/97 4K psi        | 32              | 0                 |                      |                 |                   |   |
| MH A1-2         | CB A1-1             | 12/VCP                          | 4/8/97               | 8               | 0                 | 4/9/97 4K psi        | 8               | 0                 |                      |                 |                   |   |
| MH A1-3         | MH A1-2             | 10/VCP                          | 4/8/97               | 115             | 0                 | 4/8/97               | 115             | 0                 |                      |                 |                   |   |
| MH A5           | CB A7               | 12/VCP                          | 2/10/97              | 345             | 0                 | 3/19/97              | 345             | 0                 | 4/3/97               | 345             | 0                 |   |
| MH A5           | CB A5-1             | 8/VCP                           | 2/10/97              | 40              | 0                 | 3/19/97              | 40              | 0                 |                      |                 |                   |   |
| MH B6-14        | CB B6-6             | 15/VCP                          | 3/4/97               | 178             | 0                 | 3/25/97              | 178             | 0                 | 3/26/97              | 178             | 0                 |   |
| MH C4           | CB C5               | 12/VCP                          | 3/3/97               | 281             | 0                 | 3/4/97; 4K psi       | 281             | 0                 |                      |                 |                   |   |

**TABLE B-5 (a)**  
**BASIN V STORM DRAIN LINE CLEANING SUMMARY LOG**

| From :<br>MH/CB | To :<br>MH/CB       | Pipe Dia. (in)/<br>Type of Pipe | 1st Clean-up<br>Date | Cleaned<br>(ft) | Uncleaned<br>(ft) | 2nd Clean-up<br>Date | Cleaned<br>(ft) | Uncleaned<br>(ft) | 3rd Clean-up<br>Date | Cleaned<br>(ft) | Uncleaned<br>(ft) | Remarks   |
|-----------------|---------------------|---------------------------------|----------------------|-----------------|-------------------|----------------------|-----------------|-------------------|----------------------|-----------------|-------------------|---|
| MH C4           | lateral Bldg<br>206 | 12/VCP                          | 2/27/97              | 57              | 58                | 3/4/97; 4K psi       | 115             | 0                 |                      |                 |                   | Not accessible for complete 1st line cleaning - 90° elbow |
| MH C6           | MH C5               | 15/VCP                          | 3/3/97               | 106             | 0                 | 3/4/97; 4K psi       | 106             | 0                 | 4/4/97               | 106             | 0                 |   |
| MH C6           | MH C7               | 15/VCP                          | 3/3/97               | 57              | 0                 | 3/4/97; 4K psi       | 57              | 0                 | 4/4/97               | 57              | 0                 |   |
| MH D1           | CB B7               | 18/VCP                          | 2/27/97              | 407             | 0                 | 3/25/97              | 407             | 0                 | 4/4/97               | 407             | 0                 |   |
| MH D2           | CB D2-2             | 10/VCP                          | 2/27/97              | 27              | 0                 | 3/24/97              | 27              | 0                 |                      |                 |                   |   |
| MH D3           | CB D2               | 12/VCP                          | 2/26/97              | 221             | 0                 | 3/18/97              | 221             | 0                 | 4/4/97               | 221             | 0                 |   |
| MH D3           | CB D3-1             | 10/VCP                          | 2/27/97              | 38              | 0                 | 4/2/97               | 38              | 0                 |                      |                 |                   |   |
| MH E1           | roof drain          | 6/VCP                           | 3/4/97               | 13              | 0                 |                      |                 |                   |                      |                 |                   |   |
| MH E1           | MH E2               | 10/VCP                          | 3/4/97               | 177             | 0                 | 3/6/97; 4K psi       | 177             | 0                 |                      |                 |                   |   |
| MH E2           | lateral Bldg<br>231 | 6/VCP                           | 3/4/97               | 18              | 0                 | 3/26/97              | 18              | 0                 |                      |                 |                   |   |
| MH E2           | MH E3               | 10/VCP                          | 3/4/97               | 159             | 0                 | 3/26/97              | 159             | 0                 | 4/8/97               | 159             | 0                 |   |
| MH E3           | CB E3-1             | 8/VCP                           | 4/8/97               | 32              | 0                 |                      |                 |                   |                      |                 |                   |   |
| MH E4           | MH E3               | 15/VCP                          | 3/5/97               | 197             | 0                 | 3/31/97              | 197             | 0                 |                      |                 |                   |   |
| MH E4           | CB E5               | 8/VCP                           | 3/5/97               | 117             | 0                 | 3/31/97              | 117             | 0                 |                      |                 |                   |   |
| MH E4           | CB E4-2             | 12/VCP                          | 3/5/97               | 164             | 0                 | 3/31/97              | 164             | 0                 |                      |                 |                   |   |
| MH E4           | lateral             | 8/VCP                           | 3/5/97               | 30              | 0                 | 3/31/97              | 30              | 0                 |                      |                 |                   |   |
| MH F1           | CB F2               | 10/VCP                          | 3/4/97               | 35              | 0                 | 3/5/97; 4K psi       | 35              | 0                 |                      |                 |                   |   |
| MH F1           | lateral             | 12/VCP                          | 3/4/97               | 37              | 0                 | 4/1/97               | 37              | 0                 |                      |                 |                   |   |
| MH F1           | CB B6-6             | 12/VCP                          | 3/4/97               | 198             | 0                 | 3/5/97; 4K psi       | 198             | 0                 |                      |                 |                   |   |
| MH D3           | CB D3-2             | 10                              | ---                  | 0               | 70                |                      |                 |                   |                      |                 |                   | Collapsed line  |
| Area 5-1        |                     | 4                               | ---                  | 0               | 100               |                      |                 |                   |                      |                 |                   | Submerged lines   |

**TABLE 6-6 (a)**  
**BASIN VI STORM DRAIN CLEANING SUMMARY LOG**

| From:<br>MH/CB | To:<br>MH/CB          | Pipe Dia. (in)/<br>Type of Pipe | 1st Clean-up<br>Date | Cleaned<br>(ft) | Uncleaned<br>(ft) | 2nd Clean-up<br>Date | Cleaned<br>(ft) | Uncleaned<br>(ft) | 3rd Clean-up<br>Date       | Cleaned<br>(ft) | Uncleaned<br>(ft) | Remarks  |
|----------------|-----------------------|---------------------------------|----------------------|-----------------|-------------------|----------------------|-----------------|-------------------|----------------------------|-----------------|-------------------|--|
| CB A1          | CB A1-1               | 10 / VCP                        | 10/21/96             | 87              | 0                 | 2/20/97              | 87              | 0                 | 3/13/97                    | 87              | 0                 |  |
| CB A1          | CB A1-3               | 10 / VCP                        | 10/21/96             | 87              | 0                 | 2/20/97              | 87              | 0                 | 3/13/97                    | 87              | 0                 |  |
| CB A1          | CB A2                 | 15 / VCP                        | 10/24/96             | 260             | 0                 | 2/20/97              | 177             | 0                 | 4/2/97                     | 260             | 0                 |  |
| CB A1-1        | CB A1-2               | 10 / VCP                        | 10/21/96             | 156             | 0                 | 2/20/97              | 156             | 0                 |                            |                 |                   |  |
| CB A1-3        | CB A1-4               | 10 / CP                         | 10/21/96             | 85              | 0                 | 2/20/97              | 85              | 0                 |                            |                 |                   |  |
| CB A1-3        | lateral (Bldg<br>241) | 3 / CI                          | 10/24/96             | 52              | 0                 | 2/20/97              |                 |                   |                            |                 |                   |  |
| CB A1-3        | CB A1-5               | 4 / VCP                         | 10/24/96             | 15              | 0                 | 2/20/97              | 15              | 0                 |                            |                 |                   |  |
| CB A2          | CB A2-1               | 12 / RCP                        | 10/24/96             | 25              | 0                 | 2/20/97              | 25              | 0                 |                            |                 |                   |  |
| CB A2-1        | lateral               | 6 / CI                          | 10/24/96             | 400             | 0                 |                      |                 |                   |                            |                 |                   |  |
| CB A2-1        | lateral               | 8 / VCP                         | 10/24/96             | 310             | 0                 | 2/20/97              | 310             | 0                 |                            |                 |                   |  |
| CB A3          | CB A2                 | 18 / VCP                        | 10/25/96             | 125             | 0                 | 11/15/96             | 125             | 0                 |                            |                 |                   |  |
| CB A4          | CB A3                 | 18 / VCP                        | 10/25/96             | 150             | 0                 | 11/15/96             | 150             | 0                 |                            |                 |                   |  |
| CB A4          | lateral               | 10 / VCP                        | 10/28/96             | 65              | 110               | 2/26/97              | 65              | 110               |                            |                 |                   | Not accessible for complete line cleaning - pipe diameter change |
| CB A4          | CB A5                 | 27 / VCP                        | 10/30/96             | 220             | 0                 | 11/25/96; 6K psi     | 220             | 0                 |                            |                 |                   |  |
| CB A4-1        | lateral               | 18 / VCP                        | 10/25/96             | 43              | 77                | 2/21/97              | 43              | 77                |                            |                 |                   | Not accessible for complete line cleaning - damaged              |
| CB A4-1        | CB A4-2               | 24 / VCP                        | 10/25/96             | 275             | 0                 | 2/20/97              | 275             | 0                 | 3/13/97                    | 275             | 0                 |  |
| CB A4-1        | CB A4                 | 24 VCP                          | 10/25/96             | 123             | 0                 | 2/21/97              | 123             | 0                 | 3/13/97                    | 123             | 0                 |  |
| CB A4-4        | lateral               | 4 / VCP                         | 10/28/96             | 16              | 0                 | 2/20/97              | 16              | 0                 |                            |                 |                   |  |
| CB A4-5        | CB A4                 | 15 / VCP                        | 10/28/96             | 53              | 0                 | 11/15/96             | 53              | 0                 | 3/13/97                    | 53              | 0                 |  |
| CB A4-5        | CB A4-4               | 12 / VCP                        | 10/28/96             | 202             | 0                 | 11/15/96             | 202             | 0                 | 3rd 3/13/97<br>4th 3/17/97 | 202<br>202      | 0<br>0            |  |
| CB A5          | CB A6                 | 27 / VCP                        | 10/30/96             | 272             | 0                 | 2/21/97              | 272             | 0                 |                            |                 |                   |  |
| CB A5-1        | lateral               | 4/VCP                           | 2/19/97              | 3               | 0                 |                      |                 |                   |                            |                 |                   |  |
| CB A5-3        | lateral               | 6                               | 2/13/97              | 3               | 0                 | 2/19/97              | 3               | 0                 |                            |                 |                   |  |
| CB A5-3        | mainline              | 10/VCP                          | 2/13/97              | 71              | 0                 | 2/19/97              | 71              | 0                 |                            |                 |                   |  |
| CB A6          | CB A7                 | 30/VCP                          | 11/13/96             | 80              | 0                 | 2/21/97              | 80              | 0                 |                            |                 |                   |  |
| CB A6          | Div. Structure        | 12                              | 11/13/96             | 20              | 0                 |                      |                 |                   |                            |                 |                   |  |
| CB A6-1        | CB A6-4               | 10/VCP                          | 11/4/96              | 140             | 0                 | 2/20/97; 4K psi      | 140             | 0                 |                            |                 |                   |  |



**TABLE 6-6 (a)**  
**BASIN VI STORM DRAIN CLEANING SUMMARY LOG**

| From:<br>MH/CB | To:<br>MH/CB         | Pipe Dia. (in)/<br>Type of Pipe | 1st Clean-up<br>Date | Cleaned<br>(ft) | Uncleaned<br>(ft) | 2nd Clean-up<br>Date | Cleaned<br>(ft) | Uncleaned<br>(ft) | 3rd Clean-up<br>Date      | Cleaned<br>(ft) | Uncleaned<br>(ft) | Remarks   |
|----------------|----------------------|---------------------------------|----------------------|-----------------|-------------------|----------------------|-----------------|-------------------|---------------------------|-----------------|-------------------|---|
| CB A6-1        | CB A6                | 15/VCP                          | 11/13/96             | 213             | 0                 | 11/14/96             | 213             | 0                 | 3rd 3/17/97<br>4th 4/2/97 | 213<br>213      | 0<br>0            |   |
| CB A6-2        | CB A6-3              | 8/VCP                           | 11/4/96              | 103             | 0                 | 2/21/97; 4K psi      | 103             | 0                 | 4/2/97                    | 103             | 0                 |   |
| CB A6-2        | CB A6-1              | 15/VCP                          | 11/4/96              | 130             | 0                 | 11/14/96             | 130             | 0                 | 3rd 3/13/97<br>4th 4/2/97 | 130<br>130      | 0<br>0            |   |
| CB A6-2        | lateral              | 4 / VCP                         | 11/4/96              | 54              | 0                 | 2/25/97              | 54              | 0                 |                           |                 |                   |   |
| CB A6-4        | lateral/<br>Bldg 203 | 8 / VCP                         | 11/4/96              | 56              | 0                 | 2/24/97; 4K psi      | 56              | 0                 | 4/15/97                   | 36              | 20                | Not accessible for complete 3rd line cleaning - bend    |
| CB A6-4        | lateral              | 8                               | 11/4/96              | 30              | 0                 |                      |                 |                   |                           |                 |                   |   |
| CB A7          | MH A8                | 30/VCP                          | 11/13/96             | 205             | 0                 | 2/21/97              | 205             | 0                 |                           |                 |                   |   |
| CB A7-2        | CB A7-3              | 8/VCP                           | 2/19/97              | 60              | 0                 | 2/19/97              | 60              | 0                 |                           |                 |                   |   |
| CB A7-2        | mainline             | 8/VCP                           | 2/19/97              | 75              | 0                 | 2/19/97              | 75              | 0                 |                           |                 |                   |   |
| CB A8          | CB A9                | 30/VCP                          | 11/13/96             | 157             | 0                 | 2/24/97              | 157             | 0                 |                           |                 |                   |   |
| CB A8          | CB A8-1              | 12/VCP                          | 11/14/96             | 97              | 0                 | 2/21/97              | 97              | 0                 | 2/25/97; 4K psi           | 97              | 0                 |   |
| CB A8-1        | lateral              | 4/VCP                           | 11/14/96             | 80              | 0                 | 2/18/97              | 80              | 0                 |                           |                 |                   |   |
| CB A8-2        | CB A8-1              | 10/VCP                          | 11/14/96             | 65              | 0                 | 2/18/97; 4K psi      | 65              | 0                 | 2/25/97                   | 65              | 0                 |   |
| CB A8-2        | lateral              | 8/VCP                           | 2/18/97              | 32              | 0                 | 2/25/97              | 32              | 0                 |                           |                 |                   |   |
| CB A8-2        | lateral              | 4/VCP                           | 2/18/97              | 22              | 0                 | 2/25/97              | 22              | 0                 |                           |                 |                   |   |
| CB B1          | CB B4                | 8/Conc.                         | 11/13/96             | 33              | 63                | 2/21/97; 4K psi      | 33              | 63                | 2/25/97                   | 96              | 0                 | Not accessible for complete 1st & 2nd cleaning - debris |
| CB B1          | CB B2                | 8/VCP                           | 11/13/96             | 55              | 0                 | 2/21/97; 4K psi      | 55              | 0                 |                           |                 |                   |   |
| CB B1          | CB B3                | 12/Conc.                        | 11/13/96             | 54              | 0                 | 2/21/97              | 54              | 0                 | 2/25/97                   | 54              | 0                 |   |
| CB B3          | outfall              | 12/VCP                          | 11/13/96             | 90              | 0                 | 2/27/97              | 90              | 0                 |                           |                 |                   |   |
| CB F1          | mainline             | 4                               | 3/18/97              | 103             | 0                 | 3/18/97              | 103             | 0                 |                           |                 |                   |   |
| MH A5-1        | MH A5-2              | 10/VCP                          | 2/13/97              | 57              | 0                 | 2/19/97; 4K psi      | 57              | 0                 | 2/25/97                   | 57              | 0                 |   |
| MH A5-1        | mainline             | 10/VCP                          | 2/13/97              | 75              | 0                 | 2/19/97; 4K psi      | 75              | 0                 | 2/25/97                   | 75              | 0                 |   |
| MH A7          | CB A7-1              | 8/VCP                           | 11/13/96             | 71              | 0                 | 2/24/97; 4K psi      | 71              | 0                 | 2/25/97                   | 71              | 0                 |   |
| MH D1          | lateral/<br>mainline | 10/VCP                          | 2/24/97              | 197             | 0                 | 2/24/97              | 197             | 0                 | 2/26/97                   | 197             | 0                 |   |
| MH D2          | MH D1                | 12/VCP                          | 2/24/97              | 118             | 0                 | 2/24/97              | 118             | 0                 |                           |                 |                   |   |
| MH D2          | CB D2-1              | 10/VCP                          | 2/24/97              | 74              | 0                 | 2/24/97              | 74              | 0                 |                           |                 |                   |   |
| MH D2          | lateral              | 10/VCP                          | 2/24/97              | 20              | 0                 | 2/24/97              | 20              | 0                 |                           |                 |                   |   |

**TABLE B-7 (a)**  
**BASIN VII STORM DRAIN CLEANING SUMMARY REPORT**

| From:<br>MH/CB | To:<br>MH/CB        | Pipe Dia. (in)/<br>Type of Pipe | 1st Clean-up<br>Date | Cleaned<br>(ft) | Uncleaned<br>(ft) | 2nd Clean-up<br>Date | Cleaned<br>(ft) | Uncleaned<br>(ft) | 3rd Clean-up<br>Date | Cleaned<br>(ft) | Uncleaned<br>(ft) | Remarks   |
|----------------|---------------------|---------------------------------|----------------------|-----------------|-------------------|----------------------|-----------------|-------------------|----------------------|-----------------|-------------------|---|
| CB A1          | CB A2               | 24/RCP                          | 5/12/97              | 69              | 0                 | 5/15/97              | 69              | 0                 |                      |                 |                   |   |
| CB A1          | CB E7               | 18/VCP                          | 5/13/97              | 210             | 0                 | 5/15/97              | 210             | 0                 | 9/2/97               | 210             | 0                 |   |
| CB A12         | mainline            | 10/VCP                          | 6/11/97              | 80              | 0                 | 6/11/97              | 80              | 0                 |                      |                 |                   |   |
| CB A12         | 302                 | 6                               | 6/11/97              | 50              | 0                 |                      |                 |                   |                      |                 |                   |   |
| CB A13         | mainline            | 8/CIP                           | 6/10/97              | 100             | 0                 | 6/10/97              | 100             | 0                 | 9/2/97               | 100             | 0                 |   |
| CB A3          | CB A3-1             | 8/VCP                           | 5/20/97              | 100             | 0                 | 5/28/97              | 100             | 0                 |                      |                 |                   |   |
| CB A6          | MH A5               | 24/VCP                          | 5/14/97              | 106             | 0                 | 5/15/97              | 106             | 0                 |                      |                 |                   |   |
| CB A6          | lateral Bldg<br>366 | 12/VCP                          | 5/14/97              | 340             | 0                 | 5/19/97              | 300             | 40                |                      |                 |                   | Not accessible for complete 2nd line cleaning - pipe<br>diameter change |
| CB C12-2       | lateral             | 4/VCP                           | 5/13/97              | 40              | 0                 | 5/28/97              | 40              | 0                 |                      |                 |                   |   |
| CB C12-2       | CB E6               | 12/RCP                          | 5/13/97              | 145             | 0                 | 5/19/97              | 145             | 0                 | 9/2/97               | 145             | 0                 |   |
| CB E1-1        | CB E1-2             | 8/VCP                           | 4/28/97              | 137             | 0                 | 5/19/97              | 137             | 0                 |                      |                 |                   |   |
| CB E1-1        | CB E1               | 8/VCP                           | 4/28/97              | 147             | 0                 | 5/19/97              | 147             | 0                 |                      |                 |                   |   |
| CB E1-1        | lateral Bldg<br>400 | 6/VCP                           | 4/28/97              | 35              | 65                |                      |                 |                   |                      |                 |                   | Not accessible for complete line cleaning - offset joint                |
| CB E2          | CB E2-1             | 10/VCP                          | 4/28/97              | 35              | 0                 | 5/28/97              | 35              | 0                 |                      |                 |                   |   |
| CB E2          | CB E1               | 18/RCP                          | 4/28/97              | 52              | 143               | 5/20/97              | 195             | 0                 |                      |                 |                   | Not accessible for complete 1st line cleaning - debris                  |
| CB E3-3        | CB E4-4             | 12/VCP                          | 4/29/97              | 102             | 0                 | 5/16/97              | 102             | 0                 |                      |                 |                   |   |
| CB E3-3        | lateral             | 10                              | 4/29/97              | 2               | 0                 |                      |                 |                   |                      |                 |                   |   |
| CB E3-4        | CB E3-3             | 8/VCP                           | 4/29/97              | 133             | 0                 | 5/16/97              | 133             | 0                 |                      |                 |                   |   |
| CB E6          | lateral Bldg<br>302 | 4/VCP                           | 5/13/97              | 45              | 35                | 5/28/97              | 35              | 45                |                      |                 |                   | Not accessible for complete line cleaning - debris                      |
| CB E6-3        | MH E6               | 8/VCP                           | 5/14/97              | 110             | 0                 | 5/27/97              | 110             | 0                 |                      |                 |                   |   |
| CB E7          | MH E6               | 18/VCP                          | 5/13/97              | 186             | 0                 | 5/15/97              | 186             | 0                 |                      |                 |                   |   |
| CB E7          | CB E7-1             | 8/VCP                           | 5/13/97              | 57              | 0                 | 5/15/97              | 57              | 0                 |                      |                 |                   |   |
| CB E7          | CB E7-2             | 10/RCP                          | 5/13/97              | 92              | 0                 | 5/15/97              | 92              | 0                 |                      |                 |                   |   |
| MH A4          | CB A3               | 24/RCP                          | 5/13/97              | 208             | 0                 | 5/15/97              | 208             | 0                 |                      |                 |                   |   |
| MH A4          | CB A4-2             | 10/VCP                          | 6/10/97              | 100             | 0                 | 6/10/97              | 100             | 0                 |                      |                 |                   |   |
| MH A5          | MH A4               | 24/RCP                          | 5/13/97              | 272             | 0                 | 5/15/97              | 272             | 0                 |                      |                 |                   |   |

**TABLE B-7 (a)**  
**BASIN VII STORM DRAIN CLEANING SUMMARY REPORT**

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| From:<br>MH/CB | To:<br>MH/CB        | Pipe Dia. (in)/<br>Type of Pipe | 1st Clean-up<br>Date | Cleaned<br>(ft) | Uncleaned<br>(ft) | 2nd Clean-up<br>Date | Cleaned<br>(ft) | Uncleaned<br>(ft) | 3rd Clean-up<br>Date | Cleaned<br>(ft) | Uncleaned<br>(ft) | Remarks  |
|----------------|---------------------|---------------------------------|----------------------|-----------------|-------------------|----------------------|-----------------|-------------------|----------------------|-----------------|-------------------|--|
| MH A5          | lateral Bldg<br>366 | 12/VCP                          | 5/14/97              | 85              | 255               | 5/22/97              | 85              | 255               |                      |                 |                   | Not accessible for complete line cleaning - bend       |
| MH A8          | CB A6               | 24/RCP                          | 5/14/97              | 163             | 0                 | 5/15/97              | 163             | 0                 |                      |                 |                   |  |
| MH A8          | MH A9               | 24/RCP                          | 5/15/97              | 200             | 0                 | 5/27/97              | 200             | 0                 |                      |                 |                   |  |
| MH A9          | MH A10              | 24/RCP                          | 5/15/97              | 200             | 0                 | 5/27/97              | 200             | 0                 |                      |                 |                   |  |
| MH C12         | CB C12-3            | 10/VCP                          | 5/12/97              | 53              | 0                 | 5/28/97              | 53              | 0                 |                      |                 |                   |  |
| MH C12         | CB C12-2            | 10/RCP                          | 5/12/97              | 45              | 45                | 5/28/97              | 90              | 0                 |                      |                 |                   | Not accessible for complete 1st line cleaning - broken |
| MH E2          | MH E3               | 18/VCP                          | 4/28/97              | 100             | 0                 | 5/23/97              | 100             | 0                 |                      |                 |                   |  |
| MH E3          | CB E3-3             | 12/VCP                          | 4/28/97              | 44              | 0                 | 5/16/97              | 44              | 0                 |                      |                 |                   |  |
| MH E3          | CB E3-2             | 10/VCP                          | 4/29/97              | 44              | 0                 | 5/23/97              | 44              | 0                 |                      |                 |                   |  |
| MH E3          | MH E4               | 18/VCP                          | 4/29/97              | 92              | 0                 | 5/27/97              | 92              | 0                 |                      |                 |                   |  |
| MH E3          | CB E3-1             | 10/VCP                          | 4/29/97              | 18              | 0                 | 5/27/97              | 18              | 0                 |                      |                 |                   |  |
| MH E4          | CB E4-1             | 10/VCP                          | 4/29/97              | 34              | 0                 | 5/27/97              | 34              | 0                 |                      |                 |                   |  |
| MH E4          | CB E4-2             | 10/VCP                          | 4/29/97              | 58              | 0                 | 5/27/97              | 58              | 0                 |                      |                 |                   |  |
| MH E4          | lateral             | 10/VCP                          | 4/29/97              | 94              | 146               |                      |                 |                   |                      |                 |                   | Not accessible for complete line cleaning - plugged    |
| MH E4          | CB E4-5             | 10/VCP                          | 6/10/97              | 100             | 0                 | 6/11/97              | 100             | 0                 |                      |                 |                   |  |
| MH E5          | CB E5-1             | 8                               | 4/29/97              | 7               | 0                 |                      |                 |                   |                      |                 |                   |  |
| MH E5          | MH E6               | 18/VCP                          | 4/29/97              | 191             | 0                 | 5/27/97              | 191             | 0                 |                      |                 |                   |  |
| MH E5          | lateral             | 8                               | 5/14/97              | 38              | 0                 |                      |                 |                   |                      |                 |                   |  |
| MH E5          | MH E4               | 18/VCP                          | 4/29/97              | 191             | 0                 | 5/15/97              | 191             | 0                 |                      |                 |                   |  |
| MH E6-4        | MH E6-1             | 8/VCP                           | 5/13/97              | 86              | 0                 | 5/28/97              | 86              | 0                 |                      |                 |                   |  |
| Area 7-1       |                     | 2                               | ---                  | 0               | 65                |                      |                 |                   |                      |                 |                   | Not accessible for cleaning                            |
|                |                     | 3                               | ---                  | 0               | 25                |                      |                 |                   |                      |                 |                   | Not accessible for cleaning                            |
|                |                     | 6                               | ---                  | 0               | 35                |                      |                 |                   |                      |                 |                   | Not accessible for cleaning                            |

**TABLE B-8 (a)**  
**BASIN VIII STORM DRAIN LINE CLEANING SUMMARY LOG**

| From:<br>MH/CB | To:<br>MH/CB        | Pipe Dia. (in)/<br>Type of Pipe | 1st Clean-up<br>Date | Cleaned<br>(ft) | Uncleaned<br>(ft) | 2nd Clean-up<br>Date | Cleaned<br>(ft) | Uncleaned<br>(ft) | 3rd Clean-up<br>Date | Cleaned<br>(ft) | Uncleaned<br>(ft) | Remarks   |
|----------------|---------------------|---------------------------------|----------------------|-----------------|-------------------|----------------------|-----------------|-------------------|----------------------|-----------------|-------------------|---|
| CB A20         | mainline            | 10/VCP                          | 6/17/97              | 165             | 0                 | 6/17/97              | 165             | 0                 |                      |                 |                   |   |
| CB A8-1        | downspout           | 6/PVC                           | 4/24/97              | 20              | 0                 |                      |                 |                   |                      |                 |                   |   |
| CB A8-1        | downspout           | 8/PVC                           | 4/24/97              | 67              | 0                 | 5/21/97              | 67              | 0                 |                      |                 |                   |   |
| CB B4          | MH D1               | 10/RCP                          | 4/15/97              | 54              | 0                 |                      |                 |                   |                      |                 |                   |   |
| CB B4          | CB B4-1             | 10                              | 4/15/97              | 3               | 0                 | 4/30/97              | 3               | 0                 |                      |                 |                   |   |
| CB B4          | lateral Bldg<br>411 | 12/RCP                          | 4/15/97              | 30              | 10                | 5/29/97              | 40              | 0                 |                      |                 |                   | Not accessible for complete 1st line cleaning - WYE |
| CB B4          | MH B3               | 18/RCP                          | 4/16/97              | 315             | 0                 | 4/30/97              | 315             | 0                 |                      |                 |                   |   |
| CB B5          | CB B6               | 18/Corr                         | 4/28/97              | 106             | 0                 | 5/15/97              | 106             | 0                 |                      |                 |                   |   |
| CB B5          | CB B4               | 18/Corr                         | 4/28/97              | 145             | 0                 | 5/15/97              | 145             | 0                 |                      |                 |                   |   |
| CB B7-2        | MH B7'              | 10/VCP                          | 4/23/97              | 98              | 0                 | 5/5/97               | 98              | 0                 |                      |                 |                   |   |
| CB D2          | lateral             | 6/RCP                           | 4/15/97              | 40              | 0                 |                      |                 |                   |                      |                 |                   |   |
| CB D2          | CB D2-2             | 10/VCP                          | 4/15/97              | 200             | 0                 | 4/29/97              | 200             | 0                 |                      |                 |                   |   |
| CB D2          | MH D1               | 10/VCP                          | 4/15/97              | 125             | 0                 | 4/29/97              | 125             | 0                 |                      |                 |                   |   |
| CB E2-2        | MH E2-1             | 10                              | 4/15/97              | 4               | 0                 | 4/29/97              | 4               | 0                 |                      |                 |                   |   |
| CB E3-1        | CB E3-2             | 8/VCP                           | 4/14/97              | 94              | 0                 | 4/29/97              | 94              | 0                 |                      |                 |                   |   |
| CB E3-1        | outfall             | 10/RCP                          | 4/14/97              | 135             | 0                 | 4/29/97              | 135             | 0                 |                      |                 |                   |   |
| CB E8          | mainline            | 8/Corr                          | 4/15/97              | 25              | 0                 | 6/16/97              | 25              | 0                 |                      |                 |                   |   |
| MH A1          | lateral Bldg<br>402 | 8/VCP                           | 4/14/97              | 166             | 0                 | 4/21/97              | 166             | 0                 |                      |                 |                   |   |
| MH A11         | MH A10              | 10/RCP                          | 4/22/97              | 73              | 0                 | 5/5/97               | 73              | 0                 |                      |                 |                   |   |
| MH A2          | MH A1               | 12                              | 4/14/97              | 210             | 0                 |                      |                 |                   |                      |                 |                   |   |
| MH A3          | MH A2               | 15                              | 4/15/97              | 165             | 0                 |                      |                 |                   |                      |                 |                   |   |
| MH A3          | MH C1               | 15/VCP                          | 4/16/97              | 117             | 0                 | 4/22/97              | 117             | 0                 |                      |                 |                   |   |
| MH A4          | MH A3               | 21                              | 4/15/97              | 433             | 0                 |                      |                 |                   |                      |                 |                   |   |
| MH A5          | MH A4               | 24                              | 4/15/97              | 187             | 0                 |                      |                 |                   |                      |                 |                   |   |
| MH A6          | MH A5               | 24                              | 4/15/97              | 103             | 0                 |                      |                 |                   |                      |                 |                   |   |
| MH A6          | lateral Bldg<br>439 | 12/RCP                          | 4/15/97              | 75              | 0                 | 5/29/97              | 75              | 0                 |                      |                 |                   |   |
| MH A7          | MH A6               | 27/RCP                          | 4/15/97              | 88              | 0                 |                      |                 |                   |                      |                 |                   |   |
| MH A8          | MH A9               | 18/RCP                          | 4/23/97              | 50              | 0                 | 5/15/97              | 50              | 0                 |                      |                 |                   |   |
| MH A8          | CB A8-1             | 8                               | 4/24/97              | 55              | 0                 | 5/15/97              | 55              | 0                 |                      |                 |                   |   |
| MH A8          | MH A7               | 18/RCP                          | 4/24/97              | 125             | 0                 | 5/15/97              | 125             | 0                 |                      |                 |                   |   |
| MH A9          | MH A17              | 8/PVC                           | 4/22/97              | 120             | 0                 |                      |                 |                   |                      |                 |                   |   |
| MH A9          | MH A10              | 10/RCP                          | 4/22/97              | 110             | 0                 |                      |                 |                   |                      |                 |                   |   |
| MH B1          | CB B1-1             | 10                              | 4/15/97              | 3               | 0                 |                      |                 |                   |                      |                 |                   |   |
| MH B1          | MH B2               | 15/RCP                          | 4/15/97              | 180             | 0                 | 4/29/97              | 180             | 0                 |                      |                 |                   |   |
| MH B2          | CB B2-1             | 10                              | 4/15/97              | 3               | 0                 |                      |                 |                   |                      |                 |                   |   |

**TABLE B-8 (a)**  
**BASIN VIII STORM DRAIN LINE CLEANING SUMMARY LOG**

| From:<br>MH/CB     | To:<br>MH/CB         | Pipe Dia. (in)/<br>Type of Pipe | 1st Clean-up<br>Date | Cleaned<br>(ft) | Uncleaned<br>(ft) | 2nd Clean-up<br>Date | Cleaned<br>(ft) | Uncleaned<br>(ft) | 3rd Clean-up<br>Date | Cleaned<br>(ft) | Uncleaned<br>(ft) | Remarks   |
|--------------------|----------------------|---------------------------------|----------------------|-----------------|-------------------|----------------------|-----------------|-------------------|----------------------|-----------------|-------------------|---|
| MH B2              | lateral Bldg<br>411  | 4/CIP                           | 4/28/97              | 20              | 0                 | 6/16/97              | 20              | 0                 |                      |                 |                   |   |
| MH B2              | lateral Bldg<br>366  | 4/CIP                           | 4/28/97              | 30              | 0                 | 6/16/97              | 20              | 10                |                      |                 |                   | Not accessible for complete 2nd line cleaning - obstruction |
| MH B3              | MH B2                | 18/RCP                          | 4/16/97              | 100             | 0                 | 4/30/97              | 100             | 0                 |                      |                 |                   |   |
| MH B5              | clean out            | 10/Corr                         | 4/24/97              | 280             | 0                 | 5/14/97              | 280             | 0                 |                      |                 |                   |   |
| MH B6-1            | clean out            | 10/Corr.                        | 4/17/97              | 135             | 0                 | 5/21/97              | 135             | 0                 |                      |                 |                   |   |
| MH B6-1            | CB F3                | 10/Corr.                        | 4/17/97              | 50              | 0                 | 5/21/97              | 50              | 0                 |                      |                 |                   |   |
| MH B6-1            | CB B6                | 10/Corr                         | 4/28/97              | 200             | 0                 | 5/15/97              | 200             | 0                 |                      |                 |                   |   |
| MH B7              | MH B6                | 24/RCP                          | 4/25/97              | 120             | 0                 | 4/30/97              | 120             | 0                 |                      |                 |                   |   |
| MH B7              | MH A7 (thru<br>CB-2) | 27/RCP                          | 4/24/97              | 390             | 0                 |                      |                 |                   |                      |                 |                   |   |
| MH B7              | Div. Struct.         | 36/RCP                          | 4/30/97              | 290             | 0                 | 5/2/97               | 290             | 0                 |                      |                 |                   |   |
| MH B7-2            | MH B8                | 8/VCP                           | 4/23/97              | 213             | 0                 | 4/30/97              | 213             | 0                 |                      |                 |                   |   |
| MH B9              | mainline             | 10/VCP                          | 4/21/97              | 28              | 0                 | 6/16/97              | 28              | 0                 |                      |                 |                   |   |
| MH C2              | MH C1                | 15/RCP                          | 4/16/97              | 57              | 0                 | 4/21/97              | 57              | 0                 |                      |                 |                   |   |
| MH C2              | MH C6                | 10/RCP                          | 4/16/97              | 135             | 0                 | 4/21/97              | 135             | 0                 |                      |                 |                   |   |
| MH C2              | CB C2-1              | 10                              | 4/16/97              | 5               | 0                 | 4/21/97              | 5               | 0                 |                      |                 |                   |   |
| MH C3              | MH C4                | 12/RCP                          | 4/16/97              | 180             | 0                 | 4/21/97              | 180             | 0                 |                      |                 |                   |   |
| MH C3              | MH C2                | 12/RCP                          | 4/16/97              | 121             | 0                 | 4/21/97              | 121             | 0                 |                      |                 |                   |   |
| MH C3              | CB C3-1              | 10                              | 4/16/97              | 5               | 0                 | 4/21/97              | 5               | 0                 |                      |                 |                   |   |
| MH C3 (thru<br>C9) | MH C7                | 10/RCP                          | 4/16/97              | 138             | 0                 | 4/21/97              | 138             | 0                 |                      |                 |                   |   |
| MH C4              | MH C5                | 10/RCP                          | 4/15/97              | 135             | 0                 | 4/21/97              | 135             | 0                 |                      |                 |                   |   |
| MH C4              | CB C4-1              | 10                              | 4/15/97              | 8               | 0                 | 4/21/97              | 8               | 0                 |                      |                 |                   |   |
| MH D1              | lateral Bldg<br>351A | 6                               | 4/15/97              | 3               | 0                 | 4/29/97              | 3               | 0                 |                      |                 |                   |   |
| MH E2              | CB E2-3              | 15                              | 4/14/97              | 3               | 0                 | 4/29/97              | 3               | 0                 |                      |                 |                   |   |
| MH E2              | CB E2-2              | 15/VCP                          | 4/14/97              | 200             | 0                 | 4/29/97              | 200             | 0                 |                      |                 |                   |   |
| MH E2              | MH E2-4              | 18/VCP                          | 4/14/97              | 290             | 0                 | 4/29/97              | 290             | 0                 |                      |                 |                   |   |
| MH E2              | MH E3                | 42/RCP                          | 5/1/97               | 137             | 0                 | 5/2/97               | 137             | 0                 |                      |                 |                   |   |
| MH E2-4            | CB E2-5              | 10                              | 4/15/97              | 3               | 0                 | 4/29/97              | 3               | 0                 |                      |                 |                   |   |
| MH E2              | Div. Struct.         | 42/RCP                          | 5/1/97               | 95              | 0                 | 5/2/97               | 85              | 0                 |                      |                 |                   |   |
| MH E3              | lateral              | 8/RCP                           | 4/14/97              | 128             | 0                 | 5/29/97              | 128             | 0                 |                      |                 |                   |   |

**TABLE B-8 (a)**  
**BASIN VIII STORM DRAIN LINE CLEANING SUMMARY LOG**

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| From:<br>MH/CB | To:<br>MH/CB | Pipe Dia. (in)/<br>Type of Pipe | 1st Clean-up<br>Date | Cleaned<br>(ft) | Uncleaned<br>(ft) | 2nd Clean-up<br>Date | Cleaned<br>(ft) | Uncleaned<br>(ft) | 3rd Clean-up<br>Date | Cleaned<br>(ft) | Uncleaned<br>(ft) | Remarks                     |
|----------------|--------------|---------------------------------|----------------------|-----------------|-------------------|----------------------|-----------------|-------------------|----------------------|-----------------|-------------------|-----------------------------|
| Area 8-1       |              | 4                               | ---                  | 0               | 240               |                      |                 |                   |                      |                 |                   | Not accessible for cleaning |
|                |              | 8                               | ---                  | 0               | 300               |                      |                 |                   |                      |                 |                   | Not accessible for cleaning |
| Area 8-2       |              | 8                               | ---                  | 0               | 170               |                      |                 |                   |                      |                 |                   | Not accessible for cleaning |
|                |              | 10                              | ---                  | 0               | 180               |                      |                 |                   |                      |                 |                   | Not accessible for cleaning |
|                |              | 12                              | ---                  | 0               | 70                |                      |                 |                   |                      |                 |                   | Not accessible for cleaning |
| Area 8-3       |              | 8                               | ---                  | 0               | 205               |                      |                 |                   |                      |                 |                   | Not accessible for cleaning |
|                |              | 10                              | ---                  | 0               | 110               |                      |                 |                   |                      |                 |                   | Not accessible for cleaning |
| Area 8-4       |              | 6                               | ---                  | 0               | 1705              |                      |                 |                   |                      |                 |                   | Not accessible for cleaning |
|                |              | 8                               | ---                  | 0               | 60                |                      |                 |                   |                      |                 |                   | Not accessible for cleaning |

**TABLE B-9 (a)**  
**BASIN IX STORM DRAIN CLEANING SUMMARY REPORT**

1 of 1

| From:<br>MH/CB | To:<br>MH/CB | Pipe Dia. (in)/<br>Type of Pipe | 1st Clean-up<br>Date | Cleaned<br>(ft) | Uncleaned<br>(ft) | 2nd Clean-up<br>Date | Cleaned<br>(ft) | Uncleaned<br>(ft) | 3rd Clean-up<br>Date | Cleaned<br>(ft) | Uncleaned<br>(ft) | Remarks  |
|----------------|--------------|---------------------------------|----------------------|-----------------|-------------------|----------------------|-----------------|-------------------|----------------------|-----------------|-------------------|--|
| CB A2-2        | CB A2-3      | 8/VCP                           | 5/16/97              | 55              | 0                 | 5/30/97              | 55              | 0                 |                      |                 |                   |  |
| CB A2-2        | MH A2        | 10/VCP                          | 5/16/97              | 80              | 0                 | 5/30/97              | 80              | 0                 |                      |                 |                   |  |
| CB A4-2        | CB A4-3      | 12/RCP                          | 6/11/97              | 125             | 0                 | 6/11/97              | 125             | 0                 |                      |                 |                   |  |
| CB A4-2        | MH A4        | 12/RCP                          | 6/11/97              | 55              | 0                 | 6/11/97              | 55              | 0                 |                      |                 |                   |  |
| CB A4-2        | lateral      | 4/CIP                           | 6/11/97              | 50              | 0                 | 6/13/97              | 50              | 0                 |                      |                 |                   |  |
| CB A5          | CB A5-1      | 12/VCP                          | 6/12/97              | 100             | 0                 | 6/16/97              | 100             | 0                 |                      |                 |                   |  |
| CB A6          | mainline     | 10/VCP                          | 6/16/97              | 80              | 0                 | 6/16/97              | 80              | 0                 |                      |                 |                   |  |
| CB A6          | lateral      | 4/VCP                           | 6/16/97              | 50              | 0                 | 6/16/97              | 50              | 0                 |                      |                 |                   |  |
| CB A7          | mainline     | 10/VCP                          | 6/12/97              | 20              | 17                | 6/13/97              | 20              | 17                | 9/2/97               | 37              | 0                 | Not accessible for complete 1st & 2nd line cleaning - debris |
| MH A1          | MH A2        | 12/VCP                          | 5/21/97              | 205             | 0                 | 5/29/97              | 205             | 0                 |                      |                 |                   |  |
| MH A2          | MH A3        | 12/VCP                          | 5/21/97              | 200             | 0                 | 5/29/97              | 200             | 0                 |                      |                 |                   |  |
| MH A3          | MH A4        | 12/VCP                          | 5/22/97              | 200             | 0                 | 5/29/97              | 200             | 0                 |                      |                 |                   |  |
| MH A3          | lateral      | 10/VCP                          | 6/13/97              | 100             | 0                 | 6/13/97              | 100             | 0                 |                      |                 |                   |  |
| MH A4          | CB A5        | 18/VCP                          | 6/12/97              | 200             | 0                 | 6/16/97              | 200             | 0                 |                      |                 |                   |  |
| MH B1          | CB B1-1      | 10/VCP                          | 5/21/97              | 45              | 0                 | 5/29/97              | 45              | 0                 |                      |                 |                   |  |
| MH B1          | mainline     | 10/VCP                          | 5/21/97              | 100             | 0                 | 5/29/97              | 100             | 0                 |                      |                 |                   |  |
| MH B1          | lateral      | 4/CIP                           | 5/23/97              | 80              | 0                 | 6/13/97              | 80              | 0                 |                      |                 |                   |  |
| MH B1          | lateral      | 4/CIP                           | 5/23/97              | 50              | 0                 | 6/13/97              | 50              | 0                 |                      |                 |                   |  |

**TABLE B-10 (a)**  
**BASIN X STORM DRAIN LINE CLEANING SUMMARY LOG**

| From:<br>MH/CB        | To:<br>MH/CB          | Pipe Dia. (in)/<br>Type of Pipe | 1st Clean-up<br>Date | Cleaned<br>(ft) | Uncleaned<br>(ft) | 2nd Clean-up<br>Date | Cleaned<br>(ft) | Uncleaned<br>(ft) | 3rd Clean-up<br>Date | Cleaned<br>(ft) | Uncleaned<br>(ft) | Remarks |
|-----------------------|-----------------------|---------------------------------|----------------------|-----------------|-------------------|----------------------|-----------------|-------------------|----------------------|-----------------|-------------------|---------|
| CB A1                 | CB E5(8)<br>(Basin 8) | 8/VCP                           | 3/26/97              | 137             | 0                 | 4/2/97               | 137             | 0                 | 4/17/97              | 137             | 0                 |         |
| CB A2                 | CB A1                 | 12/VCP                          | 3/27/97              | 125             | 0                 | 4/3/97               | 125             | 0                 | 4/17/97              | 125             | 0                 |         |
| CB A2                 | CB A2-1               | 15/VCP                          | 3/27/97              | 205             | 0                 | 4/3/97               | 205             | 0                 | 4/17/97              | 205             | 0                 |         |
| CB A2-2               | CB A2-1               | 12/VCP                          | 3/27/97              | 137             | 0                 | 4/2/97               | 137             | 0                 | 4/17/97              | 137             | 0                 |         |
| CB A3                 | MH B1                 | 12/VCP                          | 3/27/97              | 80              | 0                 | 4/3/97               | 80              | 0                 |                      |                 |                   |         |
| CB A3                 | CB A4                 | 10/VCP                          | 3/27/97              | 155             | 0                 | 4/2/97               | 155             | 0                 | 4/17/97              | 155             | 0                 |         |
| CB A3                 | CB A2                 | 15/VCP                          | 3/31/97              | 180             | 0                 | 4/3/97               | 180             | 0                 | 4/17/97              | 180             | 0                 |         |
| CB A4                 | CB A5                 | 8/VCP                           | 3/27/97              | 155             | 0                 | 4/2/97               | 155             | 0                 |                      |                 |                   |         |
| CB D2-1               | CB D2                 | 8/CIP                           | 3/31/97              | 36              | 10                | 4/24/97              | 46              | 0                 |                      |                 |                   |         |
| CB D2-1               | lateral               | 6/CIP                           | 3/31/97              | 37              | 0                 | 4/28/97              | 37              | 0                 |                      |                 |                   |         |
| CB D3-1               | CB E4                 | 8/Iron                          | 4/1/97               | 100             | 0                 | 4/3/97               | 100             | 0                 |                      |                 |                   |         |
| CB D3-1               | CB D3                 | 10/Corr                         | 4/1/97               | 93              | 0                 | 4/3/97               | 93              | 0                 | 4/18/97              | 93              | 0                 |         |
| CB E2-1               | CB E2                 | 6/VCP                           | 3/31/97              | 30              | 0                 | 4/28/97              | 30              | 0                 |                      |                 |                   |         |
| CB E2-1               | lateral               | 4/CIP                           | 4/2/97               | 40              | 0                 | 4/28/97              | 40              | 0                 |                      |                 |                   |         |
| CB E3                 | lateral               | 4/CIP                           | 4/2/97               | 29              | 0                 | 4/28/97              | 29              | 0                 |                      |                 |                   |         |
| CB E4                 | CB E6                 | 8/Corr.                         | 4/1/97               | 75              | 0                 | 4/3/97               | 75              | 0                 | 4/18/97              | 75              | 0                 |         |
| CB E5(8)<br>(Basin 8) | CB E4(8)<br>(Basin 8) | 8/VCP or CORR                   | 3/26/97              | 137             | 0                 | 4/2/97               | 137             | 0                 | 4/17/97              | 137             | 0                 |         |
| CB E9<br>(Basin 8)    | CB F1                 | 8/VCP                           | 3/26/97              | 133             | 0                 | 4/2/97               | 133             | 0                 | 4/17/97              | 133             | 0                 |         |
| CB F1                 | CB A2-2               | 10/VCP                          | 3/27/97              | 137             | 0                 | 4/2/97               | 137             | 0                 |                      |                 |                   |         |
| MH B1                 | MH B2                 | 10/VCP                          | 3/27/97              | 15              | 0                 | 4/3/97               | 15              | 0                 |                      |                 |                   |         |
| MH B2                 | CB B2-2               | 8/VCP                           | 3/27/97              | 70              | 0                 | 4/3/97               | 70              | 0                 |                      |                 |                   |         |
| MH B2                 | CB B2-1               | 8/VCP                           | 3/27/97              | 86              | 0                 | 4/3/97               | 86              | 0                 |                      |                 |                   |         |
| MH C1                 | CB C1-1               | 10/Corr.                        | 4/1/97               | 73              | 0                 | 4/3/97               | 73              | 0                 |                      |                 |                   |         |
| MH C1                 | MH C2                 | 10/Corr                         | 4/1/97               | 145             | 0                 | 4/3/97               | 145             | 0                 | 4/18/97              | 145             | 0                 |         |
| MH C1                 | CB C1-2               | 8/Corr.                         | 4/3/97               | 79              | 0                 | 4/18/97              | 79              | 0                 |                      |                 |                   |         |
| MH C2                 | CB C2-2               | 6/Corr.                         | 4/1/97               | 75              | 0                 | 4/3/97               | 75              | 0                 | 4/18/97              | 75              | 0                 |         |
| MH C2                 | CB C2-1               | 8/Corr                          | 4/1/97               | 72              | 0                 | 4/3/97               | 72              | 0                 | 4/18/97              | 72              | 0                 |         |



**TABLE C-1**  
**BASIN I MANHOLE/CATCH BASIN CLEANING LOG**

Page 1 of 6

| CATCH BASIN/MANHOLE | DATE CLEANED   | REMARKS |
|---------------------|--|---------|
| MH A1               | 12/16/96, 12/17/96, 1/21/97                            | PASS    |
| CB A1               | 12/16/96*  | PASS    |
| MH A2               | 12/16/96, 12/17/96, 1/21/97, 1/24/97, 1/28/97          | PASS    |
| CB A2               | 12/16/96*  | PASS    |
| CB A2-1             | 12/16/96, 1/21/97, 1/28/97                             | PASS    |
| CB A2-2             | 12/16/96, 1/21/97, 1/28/97                             | PASS    |
| MH A3               | 12/16/96, 12/17/96, 1/21/97, 1/24/97, 1/28/97          | PASS    |
| CB A3               | 12/16/96*  | PASS    |
| CB A3-1             | 12/16/96, 1/21/97                                      | PASS    |
| CB A3-2             | 12/16/96*, 1/21/97                                     | PASS    |
| MH A4               | 12/17/96, 1/28/97                                      | PASS    |
| MH A5               | 12/23/96, 1/13/97, 1/27/97, 1/28/97                    | PASS    |
| CB A5               | 12/17/96*  | PASS    |
| MH A6               | 12/13/96, 12/23/96, 1/13/97, 1/14/97, 1/27/97, 1/28/97 | PASS    |
| CB A6               | 12/13/96*  | PASS    |
| MH A6-1             | 12/13/96, 1/14/97, 1/24/97                             | PASS    |
| CB A6-1             | 12/13/96*, 1/27/97                                     | PASS    |
| MH A6-2             | 12/13/96, 1/24/97                                      | PASS    |
| CB A6-2             | 12/13/96*  | PASS    |
| CB A6-3             | 12/13/96*, 1/24/97                                     | PASS    |
| MH A6-3             | 12/13/97, 1/24/97                                      | PASS    |
| MH A6-4             | 12/26/96, 1/13/97, 1/27/97                             | PASS    |
| CB A6-4             | 12/23/96*  | PASS    |
| MH A6-5             | 12/23/96, 12/26/96, 1/13/97, 1/27/97                   | PASS    |
| CB A6-5             | 12/23/96*  | PASS    |
| MH A6-6             | 12/23/96, 12/26/96, 1/27/97                            | PASS    |
| CB A6-6             | 12/23/96*  | PASS    |
| CB A6-7             | 12/23/96*, 12/23/96, 1/27/97                           | PASS    |
| CB A6-8             | 12/23/96*, 1/27/97                                     | PASS    |
| CB A7               | 1/27/97  | PASS    |
| MH A7               | 1/13/97, 1/14/97                                       | PASS    |
| MH A7-1             | 1/16/97  | PASS    |
| CB A7-1             | 12/26/96*  | PASS    |
| MH A7-2             | 1/14/97, 1/15/97, 1/16/97, 1/27/97                     | PASS    |
| CB A7-2             | 12/26/96*  | PASS    |
| MH A7-3             | 12/26/96, 1/14/97, 1/27/97                             | PASS    |
| CB A7-3             | 12/26/96*  | PASS    |
| MH A7-4             | 12/26/96   | PASS    |
| MH A7-5             | 12/26/96   | PASS    |
| DIV. STRUCT. "B"    | 1/14/97, 4/30/97                                       | PASS    |
| MH B1               | 1/14/97, 1/16/97, 1/21/97*                             | PASS    |
| CB B1-1             | 1/14/97, 1/16/97                                       | PASS    |
| MH B1-2             | 5/8/97, 5/9/97   | PASS    |
| CB B2               | 1/14/97*   | PASS    |

MH - MANHOLE

CB - CATCH BASIN

\* - INDICATES SEDIMENT TRAP

AND RELATED SEDIMENT/SLUDGE REMOVAL

CBMH01.XLS

**TABLE C-1  
BASIN I MANHOLE/CATCH BASIN CLEANING LOG**

| CATCH BASIN/MANHOLE | DATE CLEANED              | REMARKS                          |
|---------------------|---------------------------|----------------------------------|
| CB B3               | 1/14/97*                  | PASS                             |
| CB B4               | 1/14/97*                  | PASS                             |
| MH B4               | 1/14/97, 1/15/97          | PASS                             |
| CB B4-1             | 1/15/97*                  | PASS                             |
| MH B5               | 1/15/97*                  | PASS                             |
| CB B6               | 1/15/97*                  | PASS                             |
| MH B6               | 1/15/97, 2/4/97           | PASS                             |
| CB B6-1*            | 2/13/97                   | PASS                             |
| MH B7               | 2/4/97                    | PASS                             |
| MH B8               | 4/22/97                   | PASS                             |
| CB B8-1             | 5/14/97, 6/17/97          | PASS                             |
| CB B8-2             | 5/14/97, 6/17/97          | PASS                             |
| CB B8-3             | 4/22/97                   | PASS                             |
| CB B8-4             | 4/23/97                   | PASS                             |
| CB B8-5             | 4/22/97                   | PASS                             |
| MH B8-6             | 4/23/97                   | PASS                             |
| CB B7*              | 2/13/97                   | PASS                             |
| CB B8*              | 2/13/97                   | PASS                             |
| MH B9               | 4/17/97, 4/18/97          | PASS                             |
| CB B13              | 4/22/97                   | PASS                             |
| CB B14              | 5/14/97                   | PASS                             |
|                     |                           |                                  |
| CB C1               | 1/16/97*                  | PASS                             |
| CB C2               | 1/16/97*, 5/2/97, 5/13/97 | PASS                             |
| MH C2               | 1/16/97, 1/21/97          | PASS; jack hammer used to expose |
| CB C2-1             | 5/2/97, 5/13/97           | PASS                             |
| CB C2-2             | 5/5/97, 5/6/97            | PASS                             |
| CB C2-3             | 5/5/97, 5/6/97            | PASS                             |
| CB C2-4             | 5/5/97, 5/6/97            | PASS                             |
| CB C2-5             | 5/5/97, 5/6/97            | PASS                             |
| CB C3               | 1/16/97*, 5/6/97, 5/13/97 | PASS                             |
| CB C4               | 1/16/97*, 5/6/97, 5/13/97 | PASS                             |
| CB C5               | 1/30/97*, 5/6/97, 5/9/97  | PASS                             |
| CB C6               | 5/6/97, 5/13/97           | PASS                             |
|                     |                           |                                  |
| CB E1               | 4/7/97, 5/6/97            | PASS                             |
| MH E2               | 2/3/97                    | PASS                             |
| MH E2-1             | 2/5/97, 5/1/97            | PASS                             |
| MH E2-2             | 5/6/97, 5/7/97            | PASS                             |
| CB E2-3             | 5/6/97, 5/9/97            | PASS                             |
| CB E2-4             | 5/6/97, 5/7/97            | PASS                             |
| CB E3               | 1/30/97*, 2/3/97          | PASS                             |
| MH E4               | 1/30/97, 2/3/97           | PASS                             |
| MH E4-1             | 1/30/97                   | PASS                             |
| MH E5               | 1/30/97, 2/3/97           | PASS                             |

MH - MANHOLE  
CB - CATCH BASIN  
\* - INDICATES SEDIMENT TRAP  
AND RELATED SEDIMENT/SLUDGE REMOVAL

**TABLE C-1**  
**BASIN I MANHOLE/CATCH BASIN CLEANING LOG**

| CATCH BASIN/MANHOLE | DATE CLEANED             | REMARKS |
|---------------------|--------------------------|---------|
| CB E6               | 1/30/97*, 2/3/97, 4/7/97 | PASS    |
| CB E7               | 1/30/97*, 2/3/97         | PASS    |
| CB E9               | 2/4/97                   | PASS    |
| CB E10              | 2/4/97                   | PASS    |
| CB E11              | 2/4/97                   | PASS    |
| CB E13              | 2/3/97, 2/4/97           | PASS    |
| MH E14              | 2/5/97, 5/6/97           | PASS    |
| CB E15              | 2/3/97, 2/4/97           | PASS    |
| INLET E16           | 2/3/97, 5/7/97           | PASS    |
| MH E17              | 2/3/97                   | PASS    |
| MH E18              | 2/3/97                   | PASS    |
|                     |                          |         |
| CB F1               | 5/7/97                   | PASS    |
| CB F2               | 5/8/97                   | PASS    |
| CB F2-1             | 5/8/97                   | PASS    |
| CB F3               | 5/6/97, 5/13/97          | PASS    |
| CB F4               | 5/8/97, 5/9/97           | PASS    |
| MH F5               | 5/9/97, 5/22/97          | PASS    |
| MH F6               | 5/12/97, 5/28/97         | PASS    |
|                     |                          |         |
| MH G1               | 1/16/97, 1/21/97         | PASS    |
| CB G1               | 1/16/97                  | PASS    |
| MH G2               | 1/16/97, 1/21/97         | PASS    |
| CB G2               | 1/16/97*                 | PASS    |
|                     |                          |         |
| MH I1               | 2/5/97                   | PASS    |
| CB I1               | 2/6/97*                  | PASS    |
| MH I2               | 2/5/97                   | PASS    |
| CB I2               | 2/6/97*                  | PASS    |
| MH I3               | 2/5/97, 2/6/97           | PASS    |
| CB I3               | 2/6/97*                  | PASS    |
| MH I4               | 2/5/97                   | PASS    |
| CB I4*              | 2/10/97                  | PASS    |
| CB I5               | 2/5/97, 2/6/97           | PASS    |
| CB I6               | 2/6/97                   | PASS    |
| MH I7               | 2/6/97                   | PASS    |
| MH I8               | 2/6/97                   | PASS    |
| CB I8*              | 2/10/97                  | PASS    |
| MH I8-1             | 2/6/97                   | PASS    |
| MH I8-2             | 2/6/97                   | PASS    |
| CB I8-2*            | 2/10/97                  | PASS    |
| CB I8-3             | 2/10/97, 5/1/97          | PASS    |
| CB I8-4             | 2/10/97, 5/1/97          | PASS    |
| CB I8-5             | 2/10/97, 5/1/97          | PASS    |
| MH I9               | 2/12/97, 5/5/97          | PASS    |

MH - MANHOLE  
CB - CATCH BASIN  
\* - INDICATES SEDIMENT TRAP  
AND RELATED SEDIMENT/SLUDGE REMOVAL

**TABLE C-1**  
**BASIN I MANHOLE/CATCH BASIN CLEANING LOG**

| CATCH BASIN/MANHOLE | DATE CLEANED     | REMARKS |
|---------------------|------------------|---------|
| CB I9               | 2/10/97, 5/1/97  | PASS    |
| CB I9-1             | 2/10/97, 5/1/97  | PASS    |
| CB I9-2             | 2/12/97, 5/5/97  | PASS    |
| MH I9-3             | 2/10/97          | PASS    |
| MH I10              | 2/12/97, 6/17/97 | PASS    |
| MH I11              | 2/12/97, 5/1/97  | PASS    |
| CB I11-1            | 2/12/97, 5/1/97  | PASS    |
| MH I12              | 2/18/97          | PASS    |
| CB I12*             | 2/12/97          | PASS    |
| MH I13              | 2/12/97          | PASS    |
| MH I13-1            | 2/12/97, 5/2/97  | PASS    |
| CB I14              | 5/6/97, 6/17/97  | PASS    |
| CB I14-1            | 3/397            | PASS    |
| CB I14-2            | 2/13/97          | PASS    |
| CB I14-3            | 2/13/97          | PASS    |
| CB I14-4            | 2/13/97          | PASS    |
| CB I14-5            | 2/13/97          | PASS    |
| CB I14-6*           | 2/13/97          | PASS    |
| CB I14-7*           | 2/13/97          | PASS    |
| CB I16              | 5/14/97          | PASS    |
|                     |                  |         |
| CB J1               | 2/21/97          | PASS    |
| MH J2               | 2/20/97, 3/31/97 | PASS    |
|                     |                  |         |
| CB K4               | 5/21/97          | PASS    |
| CB K3               | 5/21/97, 6/17/97 | PASS    |
| CB K5               | 5/21/97, 6/17/97 | PASS    |
|                     |                  |         |
| CB L1               | 5/7/97           | PASS    |
| MH L2               | 5/20/97          | PASS    |
| CB L3               | 5/20/97          | PASS    |
| CB L6               | 5/7/97, 5/15/97  | PASS    |
| CB L7               | 5/7/97           | PASS    |
| MH L7-1             | 5/7/97           | PASS    |
| CB L8               | 5/7/97, 5/15/97  | PASS    |
| CB L9               | 5/7/97, 5/15/97  | PASS    |
| MH L10              | 5/7/97, 5/15/97  | PASS    |
|                     |                  |         |
| CB M3               | 4/23/97, 5/2/97  | PASS    |
| CB M3-1             | 4/23/97, 5/2/97  | PASS    |
| MH N1               | 5/14/97, 6/17/97 | PASS    |
| CB N1-1             | 5/14/97          | PASS    |
| CB N2               | 5/14/97, 6/17/97 | PASS    |
| MH N3               | 5/14/97          | PASS    |
|                     |                  |         |

MH - MANHOLE  
CB - CATCH BASIN  
\* - INDICATES SEDIMENT TRAP  
AND RELATED SEDIMENT/SLUDGE REMOVAL

**TABLE C-1**  
**BASIN I MANHOLE/CATCH BASIN CLEANING LOG**

| CATCH BASIN/MANHOLE | DATE CLEANED    | REMARKS                     |
|---------------------|-----------------|-----------------------------|
| MH P1               | 5/5/97, 5/6/97  | PASS                        |
| CB P1-1             | 5/7/97, 6/17/97 | PASS                        |
| CB P3               | 5/8/97, 5/9/97  | PASS                        |
| MH P4               | 5/8/97, 5/9/97  | PASS                        |
|                     |                 |                             |
| CB G5               | --              | FILLED WITH SOIL            |
| CB K8               | --              | NOT ACCESSIBLE FOR CLEANING |
| CB K6               | --              | NOT ACCESSIBLE FOR CLEANING |
| CB K7               | --              | NOT ACCESSIBLE FOR CLEANING |
| CB E19              | --              | NOT ACCESSIBLE FOR CLEANING |
| CB I16-1            | --              | NOT ACCESSIBLE FOR CLEANING |
| CB I18              | --              | NOT ACCESSIBLE FOR CLEANING |
| CB M1               | --              | NOT ACCESSIBLE FOR CLEANING |
| CB M2               | --              | NOT ACCESSIBLE FOR CLEANING |
| CB G2-1             | --              | NOT ACCESSIBLE FOR CLEANING |
| CB Q1               | --              | SUBMERGED                   |
| MH D2               | --              | SUBMERGED                   |
| CB D1               | --              | SUBMERGED                   |
| MH D6               | --              | SUBMERGED                   |
| CB D3               | --              | SUBMERGED                   |
| MH D3-1             | --              | SUBMERGED                   |
| MH D4               | --              | SUBMERGED                   |
| CB D5               | --              | SUBMERGED                   |
| MH H1               | --              | SUBMERGED                   |
| MH H2               | --              | SUBMERGED                   |
| MH H6               | --              | SUBMERGED                   |
| MH H3               | --              | SUBMERGED                   |
| MH H5               | --              | SUBMERGED                   |
| MH H4               | --              | SUBMERGED                   |
| CB L3-1             | --              | SUBMERGED                   |
| CB L4               | --              | SUBMERGED                   |
| CB L5               | --              | SUBMERGED                   |
| CB H7               | --              | SUBMERGED                   |
| CB B9-1             | --              | SUBMERGED                   |
| CB B9-2             | --              | SUBMERGED                   |
| D.S. "J"            | --              | SUBMERGED                   |
| CB J3               | --              | SUBMERGED                   |
| CB J4               | --              | SUBMERGED                   |
| MH J5               | --              | SUBMERGED                   |
| MH J5-1             | --              | SUBMERGED                   |
| MH B10              | --              | SUBMERGED                   |
| CB B10-1            | --              | SUBMERGED                   |
| MH B12              | --              | SUBMERGED                   |
| MH B11              | --              | SUBMERGED                   |
| CB B11-1            | --              | SUBMERGED                   |

MH - MANHOLE  
CB - CATCH BASIN  
\* - INDICATES SEDIMENT TRAP  
AND RELATED SEDIMENT/SLUDGE REMOVAL

**TABLE C-1**  
**BASIN I MANHOLE/CATCH BASIN CLEANING LOG**

| CATCH BASIN/MANHOLE | DATE CLEANED | REMARKS   |
|---------------------|--------------|-----------|
| MH G4               | --           | SUBMERGED |
| CB G4               | --           | SUBMERGED |
| CB G4-1             | --           | SUBMERGED |
| CB N4               | --           | SUBMERGED |
| CB G3               | --           | SUBMERGED |
| CB A11              | --           | SUBMERGED |
| MH A9               | --           | SUBMERGED |
| CB A10              | --           | SUBMERGED |

MH - MANHOLE  
CB - CATCH BASIN  
\* - INDICATES SEDIMENT TRAP  
AND RELATED SEDIMENT/SLUDGE REMOVAL

**TABLE C-2  
BASIN II MANHOLE/CATCH BASIN CLEANING LOG**

| CATCH BASIN/MANHOLE | DATE CLEANED                 | REMARKS  |
|---------------------|------------------------------|--|
| MH A1               | 11/6/96, 12/18/96, 1/9/97    | PASS   |
| MH A1-1             | 12/18/96, 12/19/96, 1/6/97   | PASS   |
| MH A1-2             | 12/18/96                     | PASS   |
| MH A1-3             | 12/18/96                     | PASS   |
| CB A1-4             | 11/4/96                      | PASS   |
| CB A1-X             | 1/2/97*                      | PASS   |
| CB A1-Y             | 1/2/97                       | PASS   |
| MH A1-Z             | 12/18/96, 1/7/97             | PASS   |
| MH A2               | 11/6/96, 12/18/96, 1/9/97    | PASS   |
| MH A3               | 11/6/96, 12/18/96, 1/9/97    | PASS   |
| CB A3-1             | 11/5/96*, 1/9/97             | PASS   |
| MH A4               | 11/6/96, 12/18/96, 1/9/97    | PASS   |
| CB A4-1             | 11/5/96*, 11/6/96, 1/9/97    | PASS   |
| CB A4-2             | 11/6/96, 12/19/96*, 1/9/97   | PASS   |
| CB A4-3             | 1/6/97                       | PASS   |
| GT A4-4             | 1/6/97                       | PASS   |
| MH A5               | 11/6/96, 11/27/96, 1/6/97    | PASS   |
| CB A5-0             | 11/7/96, 11/18/96            | PASS   |
| MH A5-1             | 11/7/96, 11/27/96            | PASS   |
| MH A5-2             | 11/7/96, 11/26/96, 1/6/97    | PASS   |
| CB A5-3             | 1/24/97                      | PASS   |
| MH A5-4             | 11/6/96, 11/27/96, 1/6/97    | PASS   |
| CB A5-5             | 11/6/96, 11/26/96, 12/19/96* | PASS, Located under a trailer: unable to clean upstream drainage structures. |
| MH A6               | 11/7/96, 11/29/96, 12/2/96   | PASS   |
| CB A6-1             | 11/18/96*                    | PASS   |
| CB A6-2             | 11/18/96*                    | PASS   |
| CB A6-3             | 11/18/96*                    | PASS   |
| CB A6-4             | 11/18/96*                    | PASS   |
| CB A6-5             | 11/18/96*                    | PASS   |
| MH A7               | 12/3/96, 12/4/96, 1/7/97     | PASS   |
| CB A7-1             | 1/7/97                       | PASS   |
| MH A8               | 12/27/96, 12/30/96           | PASS   |
| MH A9               | 12/30/96                     | PASS   |
|                     |                              |  |
| CB B1               | 11/5/96*, 1/9/97             | PASS   |
| CB B2               | 11/5/96*, 1/9/97             | PASS   |
| CB B3               | 11/5/96*                     | PASS   |
|                     |                              |  |
| CB C1               | 11/5/96*                     | PASS   |
| CB C2               | 11/5/96*, 11/6/96            | PASS   |
| MH C3               | 11/6/96, 11/26/96, 1/7/97    | PASS   |
| CB C4               | 11/5/96*                     | PASS   |

MH - MANHOLE  
CB - CATCH BASIN  
GT - GREASE TRAP  
\* - INDICATES SEDIMENT TRAP  
AND RELATED SEDIMENT/SLUDGE REMOVAL

**TABLE C-2**  
**BASIN II MANHOLE/CATCH BASIN CLEANING LOG**

| CATCH BASIN/MANHOLE | DATE CLEANED                  | REMARKS   |
|---------------------|-------------------------------|---|
| CB C5               | 11/5/96*                      | PASS  |
| CB C6               | 11/26, 11/6                   | PASS  |
|                     |                               |   |
| MH D1               | 11/12/96, 12/2/96, 1/9/97*    | PASS  |
| CB D2               | 11/18/96*, 11/27/96, 1/9/97*  | PASS  |
| CB D3               | 11/12/96, 11/18/96*, 1/6/97   | PASS  |
| CB D4               | 11/18/96*, 11/12/96           | PASS  |
| CB D5               | 11/12/96, 11/18/96*           | PASS  |
| CB D6               | 11/18/96*                     | PASS  |
| MH D7               | 11/12/96, 12/2/96, 12/18/96   | PASS  |
| CB D8               | 11/12/96*, 12/18/96           | PASS  |
| CB D9               | 11/18/96*                     | PASS  |
| CB D10              | 11/18/96*, 11/27/96, 12/18/96 | PASS  |
|                     |                               | PASS  |
| CB E1               | 11/7/96*, 1/8/97              | PASS  |
| CB E2               | 11/7/96*, 1/8/97              | PASS  |
|                     |                               | PASS  |
| CB F1               | 12/3/96*, 12/18/96            | PASS  |
| CB F2               | 12/3/96*                      | PASS  |
| CB F3               | 12/3/96*                      | PASS  |
|                     |                               | PASS  |
| CB G1               | 11/18/96*                     | PASS  |
| CB G2               | 11/18/96*                     | PASS  |
| CB G3               | 11/18/96*, 11/29/96*          | PASS  |
|                     |                               |   |
| CB H1               | 12/11/96                      | PASS  |
| CB H2               | 12/11/96                      | PASS  |
| CB H3               | 12/11/96*, 1/8/97             | PASS  |
| CB H4               | 12/11/96*, 1/8/97             | PASS  |
| CB H6               | 12/11/96*                     | PASS  |
| CB H5               | 12/11/96*, 1/8/97             | PASS  |
|                     |                               | PASS  |
| CB I1               | 12/5/96                       | PASS  |
| CB I2               | 12/5/96                       | PASS  |
| CB I3               | 12/5/96                       | PASS  |
| CB I4               | 12/4/96*, 12/5/96             | PASS  |
| CB I5               | 12/5/96*                      | PASS  |
|                     |                               |   |
| CB A5-6             | --                            | Filled with soil. Unable to clean catchbasin and upstream drainage structure. |
| CB A5-7             | --                            | Filled with soil  |
| CB A5-8             | --                            | Filled with soil  |
| CB A5-9             | --                            | Filled with soil  |

MH - MANHOLE  
CB - CATCH BASIN  
GT - GREASE TRAP  
\* - INDICATES SEDIMENT TRAP  
AND RELATED SEDIMENT/SLUDGE REMOVAL



**TABLE C-3**  
**BASIN III MANHOLE/CATCH BASIN CLEANING LOG**

| CATCH BASIN/MANHOLE | DATE CLEANED      | REMARKS  |
|---------------------|-------------------|--|
| CB A1               | 12/12/97*, 1/9/97 | Pass; walls look like exposed aggregate, possible degradation from debris. |
| CB A2               | 12/12/97*, 1/9/97 | Pass; walls look like exposed aggregate, possible degradation from debris. |
| CB A3               | 12/12/97*         | Pass; walls look like exposed aggregate, possible degradation from debris. |
| MH A3               | 12/12/97, 1/9/97  | Pass   |
| CB A3-1             | 12/12/97*         | Pass; walls look like exposed aggregate, possible degradation from debris. |
| MH A4               | 12/12/97, 1/9/97  | Pass   |
| CB A4-1             | 12/12/97*, 1/9/97 | Pass; walls look like exposed aggregate, possible degradation from debris. |
| CB A4-2             | 12/12/97*, 1/9/97 | Pass; walls look like exposed aggregate, possible degradation from debris. |
| CB A4-3             | 12/12/97*, 1/9/97 | Pass; walls look like exposed aggregate, possible degradation from debris. |
| CB A5-1             | 12/12/97*         | Pass; walls look like exposed aggregate, possible degradation from debris. |
|                     |                   |  |
| CB B1               | 1/9/97            | Pass   |
| CB B2               | 1/9/97*           | Pass   |
|                     |                   |  |
| CB C1               | 1/13/97           | Pass   |
| CB C2               | 1/13/97           | Pass   |
|                     |                   |  |
| CB D1               | 1/9/97*           | Pass   |
| CB D2               | 1/9/97*           | Pass   |
|                     |                   |  |
| MH A5               | - -               | Manhole has no bottom  |

MH - MANHOLE  
CB - CATCH BASIN  
\* - INDICATES SEDIMENT TRAP AND  
RELATED SEDIMENT/SLUDGE REMOVAL

**TABLE C-4  
BASIN IV MANHOLE/CATCH BASIN CLEANING LOG**

| CATCH BASIN/MANHOLE | DATE CLEANED                                   | REMARKS |
|---------------------|--|---------|
| MH B5               | 11/20/96, 1/7/97                               | PASS    |
| MH B5-1             | 11/20/96, 1/7/97                               | PASS    |
| CB B5-2             | 11/21/96*                                      | PASS    |
| CB B5-3             | 2/18/97, 2/19/97,                              | PASS    |
| CB B5-4             | 2/18/97, 2/19/97                               | PASS    |
| MH B5-5             | 5/20/97  | PASS    |
| MH B6               | 10/17/96, 11/21/96, 11/25/96, 11/29/96, 1/7/97 | PASS    |
| CB B6-1             | 11/29/96, 1/7/97                               | PASS    |
| MH B6-2             | 10/17/96, 1/7/97                               | PASS    |
| CB B6-3             | 10/17/96, 1/7/97, 2/3/97                       | PASS    |
| MH B6-4             | 10/17/96                                       | PASS    |
| MH B6-5             | 10/17/96, 1/7/97, 2/3/97                       | PASS    |
| MH B6-6             | 10/17/96                                       | PASS    |
| CB B6-7             | 11/29/96, 1/7/97                               | PASS    |
| CB B6-8             | 11/25/96, 1/7/97                               | PASS    |
| CB B6-9             | 11/25/96, 1/7/97                               | PASS    |
| DIVERSION STRUCTURE | 11/25/96, 1/7/97                               | PASS    |
| MH B7               | 10/22/96, 10/23/96, 11/26/96, 1/8/97, 2/3/97   | PASS    |
| CB B7-1             | 1/8/97, 2/3/97                                 | PASS    |
| CB B7-2             | 1/8/97, 2/3/97                                 | PASS    |
| CB B7-3             | 1/8/97   | PASS    |
| CB B7-4             | 1/8/97, 2/3/97                                 | PASS    |
| CB B7-5             | 1/8/97, 2/3/97                                 | PASS    |
| CB B7-6             | 1/8/97, 2/3/97                                 | PASS    |
| CB B7-7             | 1/8/97, 2/3/97                                 | PASS    |
| CB B7-8             | 1/8/97*  | PASS    |
| MH B8               | 11/26/96, 1/8/97, 2/21/97                      | PASS    |
| CB B8-1             | 11/20/96, 2/21/97                              | PASS    |
| MH B8-2             | 11/20/96, 1/28/97, 1/29/97, 1/30/97            | PASS    |
| MH B8-3             | 11/20/96, 1/29/97*                             | PASS    |
| MH B8-4             | 11/20/96, 1/29/97                              | PASS    |
| CB B8-5             | 11/20/96, 1/29/97                              | PASS    |
| CB B8-6             | 11/20/96, 1/29/97                              | PASS    |
| CB B8-7             | 1/29/97*                                       | PASS    |
| CB B8-8             | 1/29/97*, 1/30/97                              | PASS    |
| CB B8-9             | 2/12/97  | PASS    |
| MH B9               | 11/26/97, 1/8/97                               | PASS    |
|                     |  |         |
| CB D1               | 1/29/97*, 1/30/97                              | PASS    |
| CB D2               | 1/29/97*, 1/30/97                              | PASS    |

MH - MANHOLE

CB - CATCH BASIN

\* - INDICATES SEDIMENT TRAP AND  
RELATED SEDIMENT/SLUDGE REMOVAL

**TABLE C-4**  
**BASIN IV MANHOLE/CATCH BASIN CLEANING LOG**

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| CATCH BASIN/MANHOLE | DATE CLEANED              | REMARKS |
|---------------------|---------------------------|---------|
| CB E1               | 12/2/96*                  | PASS    |
| CB E2               | 12/2/96*                  | PASS    |
| CB E3               | 12/2/96*                  | PASS    |
| CB E4               | 12/2/96*, 1/13/97, 2/3/97 | PASS    |
| CB E5               | 12/2/96*, 1/13/97, 2/3/97 | PASS    |
|                     |                           |         |
| CB F1               | 1/30/97                   | PASS    |
| CB F2               | 1/30/97                   | PASS    |
| CB F3               | 1/29/97*, 1/30/97         | PASS    |

MH - MANHOLE

CB - CATCH BASIN

\* - INDICATES SEDIMENT TRAP AND  
 RELATED SEDIMENT/SLUDGE REMOVAL

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**TABLE C-5  
BASIN V MANHOLE/CATCH BASIN CLEANING LOG**

| CATCH BASIN/MANHOLE | DATE CLEANED              | REMARKS |
|---------------------|---------------------------|---------|
| MH A1               | 2/10/97, 3/19/97          | PASS    |
| CB A1-1             | 4/9/97, 4/8/97            | PASS    |
| MH A1-2             | 4/9/97, 4/8/97            | PASS    |
| MH A1-3             | 4/9/97, 4/8/97            | PASS    |
| CB A2               | 2/10/97, 3/19/97          | PASS    |
| CB A3               | 2/10/97, 3/19/97          | PASS    |
| CBA4                | 2/10/97, 3/19/97          | PASS    |
| MH A5               | 2/10/97, 3/24/97, 4/14/97 | PASS    |
| CB A5-1             | 2/10/97, 3/19/97          | PASS    |
| CB A5-2             | 2/6/97*                   | PASS    |
| CB A6               | 2/11/97, 4/15/97          | PASS    |
| ST A6-X             | 2/11/97, 4/15/97          | PASS    |
| CB A7               | 2/10/97, 3/19/97, 4/3/97  | PASS    |
| MH A-8 (DS "A")     | 2/10/97, 4/2/97           | PASS    |
|                     |                           |         |
| CB B1               | 3/10/97, 3/31/97          | PASS    |
| CB B1-1             | 3/10/97, 4/2/97           | PASS    |
| CB B1-2             | 3/10/97, 3/31/97, 4/1/97  | PASS    |
| CB B2               | 3/12/97, 3/18/97          | PASS    |
| CB B3               | 3/12/97, 3/18/97          | PASS    |
| CB B3-1             | 3/12/97, 3/17/97          | PASS    |
| CB B3-2             | 3/13/97, 3/17/97, 4/14/97 | PASS    |
| CB B4               | 4/9/97                    | PASS    |
| CB B5               | 3/26/97, 3/31/97, 4/4/97  | PASS    |
| MH B5-1             | 3/26/97, 3/31/97, 4/4/97  | PASS    |
| CB B6               | 3/5/97                    | PASS    |
| CB B6-1             | 3/5/97                    | PASS    |
| CB B6-2             | 3/6/97, 3/25/97           | PASS    |
| CB B6-3             | 3/10/97, 4/1/97           | PASS    |
| CB B6-4             | 2/11/97, 4/2/97           | PASS    |
| CB B6-5             | 2/27/97                   | PASS    |
| CB B6-6             | 3/4/97, 3/5/97            | PASS    |
| CB B6-7             | 2/27/97                   | PASS    |
| CB B6-8             | 3/4/97, 3/6/97            | PASS    |
| CB B6-9             | 2/26/97                   | PASS    |
| CB B6-10            | 3/4/97, 3/6/97            | PASS    |
| CB B6-11            | 3/4/97                    | PASS    |
| CB B6-12            | 3/4/97, 3/5/97            | PASS    |
| CB B6-13            | 3/4/97, 3/5/97            | PASS    |
| CB B6-14            | 3/6/97, 3/25/97           | PASS    |
| CB B6-Y             | 2/11/97, 4/2/97           | PASS    |
| CB B7               | 3/10/97, 3/19/97, 3/25    | PASS    |
| CB B7-1             | 3/27/97, 4/4/97           | PASS    |
| CB B7-2             | 3/27/97                   | PASS    |

MH - MANHOLE

CB - CATCH BASIN

\* - INDICATES SEDIMENT TRAP AND  
RELATED SEDIMENT/SLUDGE REMOVAL

**TABLE C-5  
BASIN V MANHOLE/CATCH BASIN CLEANING LOG**

| CATCH BASIN/MANHOLE | DATE CLEANED              | REMARKS |
|---------------------|---------------------------|---------|
| CB B8               | 2/25/97, 3/25/97, 4/4/97  | PASS    |
| CB B8-1             | 2/24/97, 3/26/97          | PASS    |
| CB B8-2             | 2/24/97, 3/26/97          | PASS    |
| CB B9               | 2/25/97, 3/6/97, 4/4/97   | PASS    |
| CB B9-1             | 2/24/97, 3/13/97          | PASS    |
| CB B9-2             | 2/24/97, 3/13/97          | PASS    |
| CB B9-3             | 2/24/97, 3/13/97          | PASS    |
| CB B10              | 2/12/97, 3/5/97, 4/11/97  | PASS    |
| CB B10-1            | 4/9/97                    | PASS    |
| CB B10-2            | 2/12/97, 3/5/97           | PASS    |
| CB B10-4            | 2/12/97, 3/5/97           | PASS    |
| CB B10-5            | 2/12/97, 3/5/97           | PASS    |
| CB B10-6            | 2/12/97, 3/5/97           | PASS    |
| CB B10-7            | 2/12/97, 3/5/97           | PASS    |
|                     |                           |         |
| CB C1               | 2/27/97                   | PASS    |
| CB C2               | 2/27/97, 3/4/97           | PASS    |
| CB C3               | 2/27/97, 3/4/97           | PASS    |
| MH C4               | 2/27/97, 3/4/97           | PASS    |
| MH C5               | 3/3/97, 3/4/97            | PASS    |
| MH C6               | 3/3/97, 3/4/97, 4/4/97    | PASS    |
| MH C7               | 3/3/97, 3/4/97, 4/4/97    | PASS    |
|                     |                           |         |
| MH D1               | 2/26/97, 3/13/97          | PASS    |
| CB D1-1             | 2/26/97, 3/13/97          | PASS    |
| CB D1-2             | 2/25/97, 3/13/97, 3/26/97 | PASS    |
| CB D1-3             | 3/4/97, 4/1/97            | PASS    |
| CB D2               | 2/26/97, 3/24/97, 4/11/97 | PASS    |
| CB D2-1             | 2/26/97, 3/24/97, 4/11/97 | PASS    |
| CB D2-2             | 2/27/97, 3/24/97          | PASS    |
| MH D3               | 2/27/97, 4/2/97           | PASS    |
| CB D3-1             | 2/27/97, 4/2/97           | PASS    |
| CB D4               | 2/26/97                   | PASS    |
| CB D5               | 2/26/97*                  | PASS    |
| CB D6               | 4/8/97, 4/9/97            | PASS    |
|                     |                           |         |
| MH E1               | 3/4/97, 3/6/97            | PASS    |
| MH E2               | 3/4/97, 3/6/97            | PASS    |
| MH E3               | 4/8/97                    | PASS    |
| CB E3-1             | 4/8/97                    | PASS    |
| CB E4               | 3/5/97, 3/31/97           | PASS    |
| CB E4-1             | 3/3/97*                   | PASS    |
| CB E4-2             | 3/5/97, 3/31/97           | PASS    |
| CB E5               | 3/5/97, 3/31/97           | PASS    |

MH - MANHOLE

CB - CATCH BASIN

\* - INDICATES SEDIMENT TRAP AND  
RELATED SEDIMENT/SLUDGE REMOVAL

**TABLE C-5**  
**BASIN V MANHOLE/CATCH BASIN CLEANING LOG**

| CATCH BASIN/MANHOLE | DATE CLEANED             | REMARKS                  |
|---------------------|--------------------------|--------------------------|
| CB E6               | 3/3/97                   | PASS                     |
| CB E7               | 3/3/97                   | PASS                     |
|                     |                          |                          |
| MH F-1              | 3/4/97, 3/5/97           | PASS                     |
| CB F2               | 3/4/97, 3/5/97           | PASS                     |
| CB F2-1             | 3/4/97, 3/5/97           | PASS                     |
| CB F2-2             | 3/3/97, 3/5/97           | PASS                     |
|                     |                          |                          |
| CB G-1              | 3/18/97, 3/31/97         | PASS                     |
| CB G-2              | 3/18/97, 3/31/97         | PASS                     |
| CB G3               | 3/27/97, 4/1/97, 4/3/97  | PASS                     |
| CB G-4              | 3/17/97                  | PASS                     |
| CB G-5              | 3/17/97                  | PASS                     |
| CB G-6              | 3/17/97                  | PASS                     |
| CB G-7              | 3/24/97                  | PASS                     |
| CB G8               | 3/27/97, 4/1/97          | PASS                     |
|                     |                          |                          |
| CB H1               | 3/27/97, 4/1/97          | PASS                     |
| CB H2               | 3/27/97, 4/1/97          | PASS                     |
| CB H2-1             | 3/27/97, 4/1/97          | PASS                     |
| CB H2-2             | 3/25/97, 3/27/97, 4/1/97 | PASS                     |
|                     |                          |                          |
| CB I1               | 3/12/97, 3/31/97         | PASS                     |
| CB I1-1             | 3/12/97, 3/31/97         | PASS                     |
| CB I2               | 3/27/97, 3/31/97         | PASS                     |
| CB I3               | 4/8/97                   | PASS                     |
|                     |                          |                          |
| CB D3-2             | - -                      | NONFUNCTIONAL CATCHBASIN |

MH - MANHOLE  
CB - CATCH BASIN  
\* - INDICATES SEDIMENT TRAP AND  
RELATED SEDIMENT/SLUDGE REMOVAL

**TABLE C-6**  
**BASIN VI MANHOLE/CATCH BASIN CLEANING LOG**

| CATCH BASIN/MANHOLE | DATE CLEANED  | REMARKS                  |
|---------------------|---|--------------------------|
| CB A1               | 10/21/96*, 10/24/96                                     | PASS                     |
| CB A1-1             | 10/21/96*, 2/20/97, 3/13/97                             | PASS                     |
| CB A1-2             | 10/21/96*, 10/24/96*, 2/20/97, 3/13/97                  | PASS                     |
| CB A1-3             | 10/21/96*, 10/24/96*, 2/20/97                           | PASS                     |
| CB A1-4             | 10/20/96*, 10/24/96*, 2/20/97                           | PASS                     |
| CB A1-5             | 10/24/96*, 10/28/96                                     | PASS                     |
| CB A2               | 10/24/96*, 10/25/96, 11/15/96, 2/26/97                  | PASS                     |
| CB A2-1             | 10/24/96*   | PASS                     |
| CB A3               | 10/25/96*, 11/15/96                                     | PASS                     |
| CB A4               | 10/25/96, 10/28/96*, 10/30/96, 11/15/96, 11/25/97       | PASS                     |
| CB A4-1             | 10/25/96*, 2/20/97, 3/13/97                             | PASS                     |
| CB A4-2             | 10/25/96, 2/20/97, 3/13/97                              | PASS                     |
| CB A4-3             | 10/28/96*   | PASS                     |
| CB A4-4             | 10/28/96*, 11/15/96, 3/13/97, 3/17/97                   | PASS                     |
| CB A4-5             | 10/28/96*, 11/15/96, 3/13/97, 3/17/97                   | PASS                     |
| CB A4-6             | 2/13/97*  | PASS                     |
| CB A5               | 10/30/96*, 11/25/97, 2/21/97                            | PASS                     |
| MH A5-1             | 2/13/97, 2/19/97, 2/25/97                               | PASS                     |
| MH A5-2             | 2/13/97, 2/19/97, 2/25/97                               | PASS                     |
| CB A5-3             | 2/13/97, 2/19/97  | PASS                     |
| CB A6               | 10/30/96, 11/4/96, 11/13/96, 11/14/96*, 3/17/97, 4/3/97 | PASS                     |
| CB A6-1             | 11/4/96*, 11/13/96, 11/14/96, 3/13/97, 4/2/97           | PASS                     |
| CB A6-2             | 11/4/96*, 11/14/96, 3/13/97, 4/2/97                     | PASS                     |
| CB A6-3             | 11/4/96, 2/21/97, 4/2/97,                               | PASS                     |
| CB A6-4             | 11/4/96*, 2/24/97, 4/15/97                              | PASS                     |
| CB A6-5             | 11/14/96*   | PASS                     |
| DIVERSION STRUCTURE | 11/13/96  | PASS                     |
| MH A7               | 11/13/96, 2/24/97, 2/25/97                              | PASS                     |
| CB A7-1             | 11/13/96, 2/24/97, 2/25/97                              | PASS                     |
| CB A7-2             | 2/19/97   | PASS                     |
| CB A7-3             | 2/19/97   | PASS                     |
| CB A8               | 11/13/96, 11/14/96, 11/15/96*, 2/21/97, 2/25/97         | PASS                     |
| CB A8-1             | 11/14/96*, 2/21/97, 2/25/97                             | PASS                     |
| CB A8-2             | 11/14/96, 2/18/97, 2/25/97                              | PASS                     |
| CB A9               | 11/13/96, 2/24/97                                       | PASS                     |
| CB B1               | 11/13/96, 11/15/96, 2/21/97,                            | PASS                     |
| CB B2               | 11/13/96, 11/14/97*, 2/21/97                            | PASS                     |
| CB B3               | 11/13/96, 11/14/97*, 2/21/97                            | PASS                     |
| CB B4               | 11/13/96, 2/21/97, 2/26/97, 11/13/96                    | PASS                     |
| MH D1               | 2/24/97, 2/26/97  | PASS                     |
| MH D1-1             | 2/21/97*  | PASS                     |
| MH D1-2             | 2/21/97*  | PASS                     |
| MH D2               | 2/24/97   | PASS                     |
| CB D2-1             | 2/24/97   | PASS                     |
| CB F1               | 3/18/97   | PASS                     |
| CB C1               | --  | CATCHBASIN HAS NO BOTTOM |

MH - MANHOLE

CB - CATCH BASIN

\* - INDICATES SEDIMENT TRAP AND  
RELATED SEDIMENT/SLUDGE REMOVAL

**TABLE C-7**  
**BASIN VII MANHOLE/CATCH BASIN CLEANING LOG**

| CATCH BASIN/MANHOLE | DATE CLEANED              | REMARKS |
|---------------------|---------------------------|---------|
| CB A1               | 5/12/97, 5/15/97          | PASS    |
| CB A2               | 5/12/97, 5/15/97          | PASS    |
| CB A2-1             | 4/29/97                   | PASS    |
| CB A3               | 5/13/97, 5/15/97          | PASS    |
| CB A3-1             | 5/20/97, 5/28/97          | PASS    |
| MH A4               | 5/13/97, 5/15/97          | PASS    |
| CB A4-1             | 4/29/97                   | PASS    |
| CB A4-2             | 6/10/97                   | PASS    |
| MH A5               | 5/13/97, 5/15/97          | PASS    |
| CB A5-1             | 4/29/97                   | PASS    |
| CB A5-2             | 4/29/97                   | PASS    |
| CB A6               | 5/14/97, 5/15/97          | PASS    |
| CB A7               | 5/2/97                    | PASS    |
| MH A8               | 5/14/97, 5/15/97          | PASS    |
| MH A9               | 5/15/97, 5/27/97          | PASS    |
| MH A10              | 5/15/97, 5/27/97          | PASS    |
| CB A10-1            | 5/15/97                   | PASS    |
| CB A11-1            | 5/2/97                    | PASS    |
| CB A12              | 6/11/97                   | PASS    |
| CB A13              | 6/10/97                   | PASS    |
| CB A15*             | 4/29/97                   | PASS    |
|                     |                           |         |
| MH C12              | 5/12/97, 5/28/97          | PASS    |
| MH C12-1            | 5/12/97                   | PASS    |
| CB C12-2            | 5/13/97, 5/28/97          | PASS    |
| CB C12-3            | 5/12/97, 5/28/97          | PASS    |
|                     |                           |         |
| CB E1               | 4/28/97, 5/19/97          | PASS    |
| CB E1-1             | 4/28/97, 5/19/97          | PASS    |
| CB E1-2             | 4/28/97, 5/19/97          | PASS    |
| MH E2               | 4/28/97, 5/28/97          | PASS    |
| CB E2-1             | 4/28/97, 5/28/97          | PASS    |
| MH E3               | 4/28/97, 5/16/97          | PASS    |
| CB E3-1             | 4/29/97, 5/27/97          | PASS    |
| CB E3-2             | 4/29/97, 5/23/97          | PASS    |
| CB E3-3             | 4/28/97, 5/16/97          | PASS    |
| CB E3-4             | 4/29/97, 5/16/97          | PASS    |
| MH E4               | 4/29/97, 5/27/97          | PASS    |
| CB E4-1             | 4/29/97, 5/27/97          | PASS    |
| CB E4-2             | 4/24/97, 4/29/97, 5/27/97 | PASS    |
| CB E4-4             | 4/29/97, 5/16/97          | PASS    |
| CB E4-5             | 6/10/97, 6/11/97          | PASS    |
| MH E5               | 4/29/97                   | PASS    |
| CB E5-1             | 4/29/97                   | PASS    |
| MH E6               | 4/29/97, 5/27/97          | PASS    |

MH - MANHOLE

CB - CATCH BASIN

\* - INDICATES SEDIMENT TRAP AND  
RELATED SEDIMENT/SLUDGE REMOVAL



**TABLE C-7**  
**BASIN VII MANHOLE/CATCH BASIN CLEANING LOG**

| CATCH BASIN/MANHOLE | DATE CLEANED     | REMARKS                     |
|---------------------|------------------|-----------------------------|
| MH E6-1             | 5/13/97, 5/28/97 | PASS                        |
| MH E6-2             | 5/12/97          | PASS                        |
| CB E6-3             | 5/14/97, 5/27/97 | PASS                        |
| MH E6-4             | 5/13/97, 5/28/97 | PASS                        |
| CB E7               | 5/13/97, 5/15/97 | PASS                        |
| CB E7-1             | 5/13/97, 5/15/97 | PASS                        |
| CB E7-2             | 5/13/97, 5/15/97 | PASS                        |
| CB E8*              | 4/24/97          | PASS                        |
|                     |                  |                             |
| CB A9-1             | --               | NOT ACCESSIBLE FOR CLEANING |
| MH A11              | --               | NOT ACCESSIBLE FOR CLEANING |
| CB A14              | --               | NOT ACCESSIBLE FOR CLEANING |
| CB C11              | --               | NONFUNCTIONAL CATCHBASIN    |
| CB C11-1            | --               | NONFUNCTIONAL CATCHBASIN    |
| CB E4-3             | --               | FILLED WITH SOIL            |

MH - MANHOLE

CB - CATCH BASIN

\* - INDICATES SEDIMENT TRAP AND  
RELATED SEDIMENT/SLUDGE REMOVAL

**TABLE C-8  
BASIN VIII MANHOLE/CATCH BASIN CLEANING LOG**

| CATCH BASIN/MANHOLE | DATE CLEANED     | REMARKS |
|---------------------|------------------|---------|
| MH A1               | 4/14/97, 4/21/97 | PASS    |
| MH A2               | 4/14/97          | PASS    |
| CB A2-1             | 4/14/97          | PASS    |
| MH A3               | 4/15/97          | PASS    |
| CB A3-1             | 4/15/97          | PASS    |
| MH A4               | 4/15/97          | PASS    |
| CB A4-1             | 4/17/97          | PASS    |
| MH A5               | 4/15/97          | PASS    |
| MH A6               | 4/15/97          | PASS    |
| MH A7               | 4/15/97          | PASS    |
| CB A7-1             | 4/18/97          | PASS    |
| MH A7-2             | 4/15/97          | PASS    |
| MH A8               | 4/23/97, 5/15/97 | PASS    |
| CB A8-1             | 4/24/97          | PASS    |
| MH A9               | 4/22/97          | PASS    |
| CB A9-1             | 4/15/97          | PASS    |
| MH A10              | 4/22/97, 5/5/97  | PASS    |
| MH A11              | 4/22/97, 5/5/97  | PASS    |
| CB A11-1*           | 4/15/97          | PASS    |
| MH A17              | 4/22/97          | PASS    |
| CB A19              | 4/17/97          | PASS    |
| CB A20              | 6/17/97          | PASS    |
| CB A21              | 4/15/97          | PASS    |
| CB A22              | 4/17/97          | PASS    |
| CB A23*             | 4/11/97          | PASS    |
|                     |                  |         |
| MH B1               | 4/15/97          | PASS    |
| CB B1-1             | 4/15/97          | PASS    |
| MH B2               | 4/15/97          | PASS    |
| CB B2-1             | 4/15/97          | PASS    |
| MH B3               | 4/16/97, 4/30/97 | PASS    |
| CB B4               | 4/16/97, 4/30/97 | PASS    |
| CB B4-1             | 4/15/97, 4/30/97 | PASS    |
| CB B5               | 4/24/97, 5/14/97 | PASS    |
| CB B5-1*            | 4/15/97          | PASS    |
| CB B5-2*            | 4/15/97          | PASS    |
| CB B5-3*            | 4/11/97          | PASS    |
| CB B6               | 4/25/97, 4/30/97 | PASS    |
| MH B6-1             | 4/17/97, 5/21/97 | PASS    |
| MH B7               | 4/23/97, 5/5/97  | PASS    |
| CB B7-1             | 4/15/97          | PASS    |
| MH B7-2             | 4/23/97, 4/30/97 | PASS    |
| MH B8               | 4/23/97, 4/30/97 | PASS    |
| MH B9               | 4/21/97, 6/16/97 | PASS    |
| CB B10*             | 4/28/97          | PASS    |
| CB B11*             | 4/9/97           | PASS    |

MH - MANHOLE

CB - CATCH BASIN

\* - INDICATES SEDIMENT TRAP AND  
RELATED SEDIMENT/SLUDGE REMOVAL

**TABLE C-8  
BASIN VIII MANHOLE/CATCH BASIN CLEANING LOG**

| CATCH BASIN/MANHOLE | DATE CLEANED     | REMARKS |
|---------------------|------------------|---------|
| CB B12*             | 4/9/97           | PASS    |
| MH C1               | 4/16/97, 4/21/97 | PASS    |
| MH C2               | 4/16/97, 4/21/97 | PASS    |
| CB C2-1             | 4/16/97, 4/21/97 | PASS    |
| CB C2-2*            | 4/21/97          | PASS    |
| MH C3               | 4/16/97, 4/21/97 | PASS    |
| CB C3-1             | 4/16/97, 4/21/97 | PASS    |
| CB C3-2*            | 4/21/97          | PASS    |
| MH C4               | 4/15/97, 4/21/97 | PASS    |
| CB C4-1             | 4/15/97, 4/21/97 | PASS    |
| MH C5               | 4/15/97, 4/21/97 | PASS    |
| CB C5-1*            | 4/18/97          | PASS    |
| MH C6               | 4/16/97, 4/21/97 | PASS    |
| CB C6-1*            | 4/21/97          | PASS    |
| CB C6-2*            | 4/21/97          | PASS    |
| MH C7               | 4/16/97, 4/21/97 | PASS    |
| CB C7-1             | 4/21/97          | PASS    |
| CB C7-2*            | 4/21/97          | PASS    |
| CB C8*              | 4/18/97          | PASS    |
| CB C8-1*            | 4/21/97          | PASS    |
| CB C9               | 4/21/97          | PASS    |
| CB C9-1*            | 4/21/97          | PASS    |
| CB C10*             | 4/18/97          | PASS    |
| MH D1               | 4/15/97, 4/29/97 | PASS    |
| CB D2               | 4/15/97          | PASS    |
| CB D2-2             | 4/15/97, 4/29/97 | PASS    |
| MH E2               | 4/14/97, 4/29/97 | PASS    |
| MH E2-1             | 4/15/97, 4/29/97 | PASS    |
| CB E2-2             | 4/14/97, 4/29/97 | PASS    |
| CB E2-3             | 4/14/97, 4/29/97 | PASS    |
| MH E2-4             | 4/14/97, 4/29/97 | PASS    |
| CB E2-5             | 4/15/97, 4/29/97 | PASS    |
| MH E3               | 4/14/97, 5/29/97 | PASS    |
| CB E3-1             | 4/14/97, 4/29/97 | PASS    |
| CB E3-2             | 4/14/97, 4/29/97 | PASS    |
| CB E4*              | 4/7/97           | PASS    |
| CB E6*              | 4/7/97           | PASS    |
| CB E7*              | 4/7/97           | PASS    |
| CB E8               | 4/15/97, 6/16/97 | PASS    |
| CB E9*              | 4/7/97           | PASS    |
| DIVERSION STRUCTURE | 4/23/97, 5/5/97  | PASS    |
| MH F1*              | 4/22/97          | PASS    |

MH - MANHOLE

CB - CATCH BASIN

\* - INDICATES SEDIMENT TRAP AND  
RELATED SEDIMENT/SLUDGE REMOVAL

**TABLE C-8**  
**BASIN VIII MANHOLE/CATCH BASIN CLEANING LOG**

| CATCH BASIN/MANHOLE | DATE CLEANED     | REMARKS                     |
|---------------------|------------------|-----------------------------|
| CB F1-1*            | 4/22/97          | PASS                        |
| CB F2*              | 4/15/97          | PASS                        |
| CB F2-1*            | 4/22/97          | PASS                        |
| CB F3               | 4/17/97, 5/21/97 | PASS                        |
| CB F4*              | 4/11/97          | PASS                        |
| CB F5*              | 4/11/97          | PASS                        |
| CB F6*              | 4/9/97           | PASS                        |
| CB F7*              | 4/9/97           | PASS                        |
| CB F8*              | 4/11/97          | PASS                        |
| CB F9*              | 4/11/97          | PASS                        |
| CB F10*             | 4/11/97          | PASS                        |
| CB F11*             | 4/22/97          | PASS                        |
| CB F12*             | 4/22/97          | PASS                        |
| CB F14*             | 4/11/97          | PASS                        |
| CB F15-1*           | 4/11/97          | PASS                        |
| CB F16*             | 4/15/97          | PASS                        |
| CB F19*             | 4/11/97          | PASS                        |
|                     |                  |                             |
| CB G1*              | 4/17/97          | PASS                        |
| CB G2*              | 4/17/97          | PASS                        |
| MH G4*              | 4/21/97          | PASS                        |
| CB G5*              | 4/17/97          | PASS                        |
| CB G6*              | 4/17/97          | PASS                        |
|                     |                  |                             |
| MH A6-1             | --               | NOT ACCESSIBLE FOR CLEANING |
| MH A6-2             | --               | NOT ACCESSIBLE FOR CLEANING |
| MH A12              | --               | NOT ACCESSIBLE FOR CLEANING |
| MH A13              | --               | NOT ACCESSIBLE FOR CLEANING |
| MH A14              | --               | NOT ACCESSIBLE FOR CLEANING |
| CB A15              | --               | NOT ACCESSIBLE FOR CLEANING |
| MH A16              | --               | NOT ACCESSIBLE FOR CLEANING |
| MH A18              | --               | NOT ACCESSIBLE FOR CLEANING |
| MH C11              | --               | NOT ACCESSIBLE FOR CLEANING |
| MH F10-1            | --               | NOT ACCESSIBLE FOR CLEANING |
| CB F13              | --               | NOT ACCESSIBLE FOR CLEANING |
| MH F15              | --               | NOT ACCESSIBLE FOR CLEANING |
| CB F18              | --               | NOT ACCESSIBLE FOR CLEANING |

MH - MANHOLE  
CB - CATCH BASIN  
\* - INDICATES SEDIMENT TRAP AND  
RELATED SEDIMENT/SLUDGE REMOVAL

**TABLE C-9**  
**BASIN IX MANHOLE/CATCH BASIN CLEANING LOG**

| CATCH BASIN/MANHOLE | DATE CLEANED              | REMARKS               |
|---------------------|---------------------------|-----------------------|
| MH A1               | 5/21/97, 5/29/97          | PASS                  |
| CB A1-1             | 5/16/97                   | PASS                  |
| MH A2               | 5/16/97, 5/30/97          | PASS                  |
| CB A2-1             | 5/16/97                   | PASS                  |
| CB A2-2             | 5/16/97, 5/30/97          | PASS                  |
| CB A2-3             | 5/16/97, 5/30/97          | PASS                  |
| MH A3               | 5/21/97, 5/29/97, 6/13/97 | PASS                  |
| CB A3-1             | 5/16/97                   | PASS                  |
| MH A4               | 5/22/97, 5/29/97          | PASS                  |
| CB A4-1             | 5/16/97                   | PASS                  |
| CB A4-2             | 6/11/97, 6/13/97          | PASS                  |
| CB A4-3             | 6/11/97                   | PASS                  |
| CB A5               | 6/12/97, 6/16/97          | PASS                  |
| CB A5-1             | 6/12/97, 6/16/97          | PASS                  |
| CB A6               | 6/16/97                   | PASS                  |
| CB A7               | 6/12/97, 6/13/97          | PASS                  |
|                     |                           |                       |
| MH B1               | 5/21/97, 5/29/97          | PASS                  |
| CB B1-1             | 5/21/97, 5/29/97          | PASS                  |
| CB B1-2             | 5/19/97                   | PASS                  |
|                     |                           |                       |
| CB C11*             | 5/19/97                   | PASS                  |
| CB C12*             | 5/19/97                   | PASS                  |
|                     |                           |                       |
| MH C1               | --                        | MANHOLE HAS NO BOTTOM |
| MH C2               | --                        | MANHOLE HAS NO BOTTOM |
| MH C3               | --                        | MANHOLE HAS NO BOTTOM |
| MH C4               | --                        | MANHOLE HAS NO BOTTOM |
| MH C5               | --                        | MANHOLE HAS NO BOTTOM |
| MH C6               | --                        | MANHOLE HAS NO BOTTOM |
| MH C7               | --                        | MANHOLE HAS NO BOTTOM |
| MH C8               | --                        | MANHOLE HAS NO BOTTOM |
| MH C9               | --                        | MANHOLE HAS NO BOTTOM |
| MH C10              | --                        | MANHOLE HAS NO BOTTOM |

MH - MANHOLE

CB - CATCH BASIN

\* - INDICATES SEDIMENT TRAP AND  
RELATED SEDIMENT/SLUDGE REMOVAL

**TABLE C-10**  
**BASIN X MANHOLE/CATCH BASIN CLEANING LOG**

| CATCH BASIN/MANHOLE | DATE CLEANED             | REMARKS |
|---------------------|--------------------------|---------|
| CB A1               | 4/17/97, 4/2/97, 3/26/97 | PASS    |
| CB A2               | 4/17/97, 4/3/97, 3/31/97 | PASS    |
| CB A2-1             | 4/17/97, 4/2/97, 3/27/97 | PASS    |
| CB A2-2             | 4/17/97, 4/2/97, 3/27/97 | PASS    |
| CB A3               | 4/17/97, 4/2/97, 3/27/97 | PASS    |
| CB A4               | 4/2/97, 3/27/97          | PASS    |
| CB A5               | 4/2/97, 3/27/97          | PASS    |
|                     |                          |         |
| MH B1               | 4/3/97, 3/27/97          | PASS    |
| MH B2               | 4/3/97, 3/27/97          | PASS    |
| CB B2-1             | 4/3/97, 3/27/97          | PASS    |
| CB B2-2             | 4/3/97, 3/27/97          | PASS    |
|                     |                          |         |
| MH C1               | 4/3/97, 4/1/97           | PASS    |
| CB C1-1             | 4/3/97, 4/1/97, 3/26/97  | PASS    |
| CB C1-2             | 4/3/97, 4/18/97          | PASS    |
| MH C2               | 4/18/97, 4/3/97, 4/1/97  | PASS    |
| CB C2-1             | 4/18/97, 4/1/97, 4/3/97  | PASS    |
| CB C2-2             | 4/18/97, 4/1/97, 4/3/97  | PASS    |
|                     |                          |         |
| CB D1               | 3/25/97                  | PASS    |
| CB D2               | 3/31/97, 4/24/97         | PASS    |
| CB D2-1             | 3/31/97, 4/24/97         | PASS    |
| CB D3               | 4/18/97, 4/3/97, 4/1/97  | PASS    |
| CB D3-1             | 4/18/97, 4/3/97, 4/1/97  | PASS    |
|                     |                          |         |
| CB E1               | 5/1/97                   | PASS    |
| CB E2               | 3/31/97, 4/28/97         | PASS    |
| CB E2-1             | 3/31/97, 4/28/97         | PASS    |
| CB E3               | 4/2/97, 4/28/97          | PASS    |
| CB E4               | 4/18/97, 4/3/97, 4/1/97  | PASS    |
| CB E5               | 4/17/97, 4/2/97, 3/26/97 | PASS    |
| CB E6               | 4/1/97, 4/3/97, 4/18/97  | PASS    |
|                     |                          |         |
| CB F1               | 4/2/97, 3/27/97          | PASS    |

MH - MANHOLE

CB - CATCH BASIN

\* - INDICATES SEDIMENT TRAP AND  
RELATED SEDIMENT/SLUDGE REMOVAL